



Established in
ENGLAND - - 1859
AUSTRALASIA 1885

Registered as a Newspaper and
PUBLISHED WEEKLY AT
42 CANNON ST., LONDON, E.C.4

Telephone: 3617 CENTRAL (3 lines)
Telegrams: CHEMICUS, CANNON,
LONDON (charged as two words only).

No. 2,069. Vol. XCI.

SUBSCRIPTION (including the Diary and Text Book) at Home or Abroad,
10s. PER ANNUM, POST FREE. Single Copies 6d. each, including postage

SEPTEMBER 20, 1919.

IMPORTANT

EVANS' ANTISEPTIC THROAT PASTILLES

The enormously increasing demand for these Pastilles, together with existing conditions, are responsible for supplies available being still somewhat restricted. The Winter season is approaching, and Chemists should place their requirements early to avoid disappointment.

Sole Manufacturers and Vendors—

EVANS SONS LESCHER & WEBB LTD.
LIVERPOOL AND NEW YORK LONDON

We offer for prompt delivery

BISMUTH SALTS.

MERCURIALS.

BROMIDES.

IODIDES.

BARBITONE.

PHENOLPHTHALEIN.

GUAIACOL & COMPOUNDS.

CREAM OF TARTAR.

SODA TART.

PARALDEHYDE.

PODOPHYLLIN.

QUININE.

THEOBROMINE.

MAY & BAKER, LTD., *Manufacturing Chemists,*
BATTERSEA, S.W. 11.



—NOT the name of a thing but the mark of a service

Co-operation in Advertising.

We all know that advertising sells goods—that is why we have to hand out so many "patents."

Practically speaking, no individual Ucalite could afford advertising of the highest grade, because the initial expenses are so heavy. But collectively they can command the very best.

This is one of the strongest features of the Ucal Plan—the advertising is of the most modern kind, the only kind which in these days is good enough.

Smart in idea and matter alike—bright in colour, well illustrated and well printed, it is "up to the minute" in every way. Specimens can be sent to those interested.

The Ucal Pharmacist speedily becomes the best known pharmacist in his district—and this increases business in other things besides Ucal Specialities.

There is no limit to the advertising assistance furnished by Ucal—every form of ammunition from tie-on labels and invoice headings, from printed wrapping paper to counter bills, folders, novelties, booklets, window strips, showcards, complete window displays—indeed, everything in the way of printed matter.

The British Public are discovering that "The Sign of Reliability" is true

Goodwill and a steadily increasing demand are the natural results.

The best service we know how to render to the public is the least we offer. And under the stimulus of 2,000 chemist co-partners we steadily improve that service.

In the long view, we serve our members' interests most thoroughly in this way.

Full particulars and terms post free from

"Ucal, Cheltenham"

“BEAUTOID”

SERIES OF TOILET PREPARATIONS.

100% Profit Proposition

THIS special offer is open to you to-day. We want the use of a portion of your window to show The “Beautoid” Specialities, the most attractive and dainty series of Toilet Preparations ever offered to the trade.

The preparations are right, the packing is right, and your profit is right—over 100% on outlay.

A vigorous advertising campaign with thousands of free samples for the public is in course of preparation; get ready for the demand.

Plentiful supply of Dummy Cartons, Window Bills, Showcards and Price Tickets with each order.

Send us your order TO-DAY.

**SPECIAL
WINDOW
SHOW
OFFER**

	Cost.	Profit.
	£ s. d.	£ s. d.
6 doz. “Beautoid” Dental Cream, sells at 1/3, trade price 10/- per doz. ...	3 0 0	3 15 0
3 doz. “Beautoid” Dental Cream. Free Bonus.		
6 doz. “Beautoid” Shampoo Powders, sells at 3d. trade price 2/- per doz. ...	0 12 0	0 15 0
3 doz. “Beautoid” Shampoo Powders. Free Bonus.		
6 doz. “Beautoid” 2-oz. Vanishing Cream, sells at 1/3, trade price 10/- per doz. ...	3 0 0	2 12 6
1½ doz. “Beautoid” 2-oz. Van. Cream. Free Bonus.		
6 doz. “Beautoid” 4-oz. Face Powders, sells at 1/6, trade price 12/- per doz. ...	3 12 0	3 3 0
1½ doz. “Beautoid” 4-oz. Face Powders. Free Bonus.		
	10 4 0	
	0 5 1	
	<u>£9 18 11</u>	<u>10 5 6</u>

Less 2½%, cash in 7 days

**£10 - 5 - 6
PROFIT
ON AN
OUTLAY
OF
£9 - 18 - 11**

CASES FREE. CARRIAGE FREE.

Beautoid Hair Fixer, 1/6. Bay Rum, 1/6. Hair Color Restorer, 2/6. Milk of Cucumber Liquid Face Cream, 1/3. Massage Cream, 1/3. Sun Kissed Cream, 1/3. Lip Salve, 9d. 33½% discount, 3 to the dozen bonus.

ALL JARS AND BOTTLES PUT UP IN ATTRACTIVE AND EXPENSIVE CARTONS.

THE BEAUTOID Co.

220 TOWER BRIDGE ROAD, LONDON, S.E. 1.

Order Early and Avoid Disappointment.

PEPS

NOW SUPPLIED

ONLY IN TIN BOXES

AND EACH TABLET
SEPARATELY

WRAPPED IN TIN FOIL

*Any Chemist Desirous of Exchanging
Old Stock (in Cardboard Boxes) can do so.*

C. E. FULFORD LTD., LEEDS.

Irish { Messrs. T. McMULLAN & Co., Victoria St., BELFAST.
Agents { Messrs. MAY, ROBERTS & Co., Ltd., Westmorland St., DUBLIN.

INDEX TO ADVERTISERS

A.F.A. CHEMICAL CO., LD., <i>Perfumes</i>	9	CARRERAS, A. & E., <i>Toilet</i>	30	FORD, SHAPLAND & CO., LD., <i>Printing</i> lxii	
ALCOCK MANUFACTURING CO., <i>Plasters</i> , &c.	lii	CARSON CHEMICAL CO., LD.	xxxiii	FRAME FOOD CO., <i>Foods</i>	xliv
ALLEN, STAFFORD, & SONS, LD., <i>Green Extracts</i>	8	CELLOPHANE CO., <i>Wrapping Material</i>	xl	FREUDENTHEIL & CO.	xviii
ALLIANCE DRUG CO., <i>Chemicals</i>	xi	CHATELAIN, J. L., <i>French Proprietaries</i>	xxxix	FUERST BROS., LD., <i>Chemicals</i>	viii
AMERICAN COMMERCE CO., LD., <i>Chemicals</i> viii		CHERTINE FOODS CO., <i>Foods</i>	xli, xlv	FULFORD, C. E., LD., <i>Peps, Ven-Yasa</i> 4, 27	
AMSTERDAM QUININE WORKS	xxvi	CHEMICAL WORKS, BRUGG, LD.	xxi	GALEN MFG. CO., <i>Bathing Caps</i>	liv
AMSTERDAM SUPERPHOSPHATE WORKS ...	xv	CHEMICAL WORKS MADDOREY LD., <i>Male Fern Extract</i>	xxiv	GARDEN CITY RUBBER CO., <i>Rubber Corks</i> lii	
ANGLO-FRENCH DRUG CO., LD.	ix	CHIESMAN, F., & CO., <i>Essential Oils</i> xxxv		GARRATT, J. E., <i>Newskin</i>	xxvii
ANZORA PERFUMERY CO., <i>Hair Cream</i> ...	29	CHRISTY, T., & CO., <i>Shampoo</i>	17, liv	GATES, LESLIE, <i>Bottle Cappings</i>	40
AYRTON, SAUNDERS & CO., LD., <i>Wholesale Druggists</i>	15	CITY OF LONDON COLLEGE	lv	GILLARD GORDON, LD., <i>Eucalyptol</i>	x
BAILEY, ROBERT, & SONS, <i>Surgical Dressings</i>	43	CLARK & CO. (PTY.), LD.	x	GIMBER, W., <i>Surgical Dressings</i>	lxii
BANDONG QUININE FACTORIES	xxvi	CLAYTON ANILINE CO., LD.	vii	GOODALL, BACKHOUSE & CO., <i>Water Glass</i>	Cover
BARKER, R., & SON, <i>Infants' Preservative</i>	xiv, Text	CLEMENT & JOHNSON, <i>Antiseptic</i>	xxx	GOUGH, KIDSTON & CO., <i>Chemicals</i> ...	xiv
BATH AND WEST OF ENGLAND COLLEGE ...	lv	CLEMAN & CO.	xlii	GOWER, J., <i>Books</i>	Col. Supp.
BEATLEY SOCIETE COMMERCIALE, <i>Chemicals</i> xx		CONDUIT, FRANK A., <i>Bottles</i>	38	GOWER & TUDOR, <i>Photo</i>	lv
BEAUTOID CO., <i>Window Display</i>	3	CONNELL, A., & CO., <i>Toilet</i>	24	GREEFF, R. W., & CO., <i>Chemicals</i> ...	6, 7
BENNETT, SONS & SHEARS, LD., <i>Pharmaceutical Machinery</i>	lxi	COOPER LABORATORY, <i>Aspirin Tablets</i> xvii		GRIFFIN, J. J., & SONS, LD.	ix
BENZOATES, LD., <i>Drugs</i>	xi	COOPER, SON & CO., LD., <i>Cachets</i>	liv	GUILDHALL CARR, PKG. MATERIALS CO. 36	
BERDOE & FISH	Col. Supp.	CORBETT, A. F., & CO., <i>Shop Fittings</i>	lii	GUMMED PAPERS, LD., <i>Sealing Machines</i> 42	
BERK, F. W., & CO., LD., <i>Acids</i> , <i>Chemicals</i>	x	CRESP MARTINENO, <i>Essences</i>	16	HAMMOND, JEFFERY & CO.	iv
BERRY'S, J. B., SONS, CO. INC., <i>Pet. Prods.</i>	xlv	CROOKES' LABORATORIES	34	HAMSON, C., & CO.	x
BERTON, ARTHUR, LD.	36	CROSFIELD, JOSEPH, & SONS, LD., <i>Glycerine</i>	xix	HARLEY, T., <i>Rat Poison</i>	xli
BIDWELLS, LD., <i>Brushware</i>	36	C.V.C. CHEMICAL WORKS, <i>Lanoline</i> ...	lxviii	HARWOOD BROS., <i>Pipes</i>	37
BIRKS, EDWARD, & SON, <i>Junket Pdr.</i> xviii		DAMANCY & CO.	xvi	HAY, E. J., & CO., <i>Caramel</i>	xvi
BISHOP, ALFRED, LD., <i>Piperazine Cit.</i> xxxii		DAVENPORT, J. T., LD., <i>Chlorodyne</i> xxxviii		HERTZ & CO., <i>Cod Liver Oil, &c.</i>	xix
BLACKIE, ROBERT, <i>Ointment, &c.</i>	xxxii	DAVIS, W., <i>Shopfitting</i>	lii	HIGGIN, LD., <i>Rubber Goods</i>	1
BLAODEN, VICTOR, & CO., <i>Chemicals</i> ...	iv	DE GROOT BROS., <i>Fusel Oil</i>	xxv	HILLCREST OIL CO. (BRADFORD), LD. ...	lxvii
BLYTHE, W., & CO., LD., <i>Epsom Salts</i> ...	ii	DEARBORN, LD., <i>Toilet Specialities</i>	28	HITCHINS, W., & CO., LD., <i>Postal Boxes</i>	lii
BOAKE, ROBERTS, A., & CO., LD., <i>Essences, Acetic Acid</i>	32, liii	DEE OIL CO., LD., <i>Petroleum Jelly</i> ...	lxviii	HOBBS, W. H., & CO., LD., <i>Ess. Oils, &c.</i> 18	
BRITISH CELLULOSE & CHEMICAL MFG. CO., LD., <i>Calcium Carbide</i>	xv	DEGEN, F. A.	lv	HOFFMANN-LA ROCHE CHEMICAL WORKS, LD., <i>Alkaloids, &c.</i>	xxiii
BRITISH COMMERCIAL GAS ASSOCIATION ..	lix	DELFPHINUS MANG. CO., <i>Nail Polish, &c.</i> 32		HOLLANDS DISTILLERY (ESS. OILS), LD.	22, 23
BRITISH FRUIT EVAPORATOR CO.	xli	DENVER CHEMICAL MANG. CO.	xxxiv	HOLLIDAY, L. B., & CO., LD., <i>Chemicals</i> iv	
BRITISH MERCHANTS INCORP., LD., <i>Drugs</i> xiv		DEPRETER, A. E., <i>Brushes</i>	37	HOLT, THOMPSON & CO., <i>Salicylic Acid</i> xii	
BRODIE, O., & CO., LD.	lii	DORF, JOHN, & CO., <i>Medicinal Snuff</i> ..	lxv	HOWARDS & SONS, <i>Chemicals</i>	i
BROOKS, PEEL & CO., LD., <i>Tubes</i>	41	DORF, JOHN, & CO., <i>Medicinal Snuff</i> ..	lxv	HUBBUCK, T., & SON, LD., <i>Oxide of Zinc</i>	ii
BROWNING, W., & CO., LD.	xvi	DROGUERIE CENTRALE D'ORIENT, LD. ...	xxii	HUISKING, C. L., <i>American Drugs, &c.</i> xxv	
BUDDENSIEG, R., <i>Chemicals</i>	xx	DUN, R. T., <i>Indian Capsules</i>	viii	HYPOSOIL, LD.	Text
BULL, D. W., <i>Paper</i>	37 Col. Supp.	EASELID REMEDIES CO.	lxii	ICILMA CO., LD., <i>Toilet Preps.</i>	31
BURGE, WARREN & RIDGLEY, LD., <i>Enemas</i> 1		EDGE, W., & SONS, LD., <i>Mordant</i>	41	IDRIS & CO., LD., <i>Aerated & Mineral Waters</i>	xlvi
BURNSIDE & CO., <i>Eucalyptus Oil</i>	x	EFANDEM CO., LD., <i>Electrical</i>	lvi	INTERNATIONAL CHEMICAL CO., LD., <i>Lavona Hair Tonic</i>	xxix
BURROUGH, J., LD., <i>Absolute Alcohol</i> Text		ELLIOTT OPTICAL CO., <i>Optical Goods</i> ...	39	JACKEL ET CIE (of Paris), LD., <i>Hair Cream</i>	8
BUTLER, E. H., & SON, LD., <i>Tablets</i>	vi	EMPIRE PERFUMERY CO., <i>Perfumery</i>	19	JOB BROS., <i>Cod Liver Oil (Newfoundland)</i>	33
BUSH, W. J., & CO., LD., <i>Perfumery</i> ...	25	ERASMIC CO., LD., <i>Perfumery</i>	17	JOHNSON, A., & CO. (LONDON), LD., <i>Drugs</i>	xv
CADBURY BROS., <i>Cocoa</i>	Cover	EUDERMINE CO., LD.	xxxiv	JOHNSON & SONS (Mfg. Chts.), LD. ...	xii
CARMICHAEL, F. J., & CO., <i>Camomiles</i> ...	v	EVANS, GRAY & HOOD, LD.	v	JOHNSON, MATTHEY & CO., LD., <i>Rare Metals</i>	lxii
CARMOL, LD., <i>Toilet</i>	10	EVANS SONS LESCHER & WEBB, LD., <i>Drugs and Chemicals</i>	xxxv, Cover		
CARR, G., & CO., LD., <i>Saccharin</i>	xvii	EVAN-WILLIAMS CO., LD., <i>Shampoo</i>	29		
		EVER-READY RAZOR CO., LD.	ix		
		FARRIS, CHARLES, <i>Beeswax</i>	10		
		FELLOWS' MEDICAL MFG. CO., <i>Syrups</i> ..	xxiv		
		FENNINGS, A.	Text		
		FIELD, C. W., <i>Saponine</i>	xi		
		FINK, F., & CO., <i>Gums</i>	liv		
		FLETCHER, FLETCHER & CO., LD.	Text		

Toilet Waters de luxe

Really good Eau de Cologne and Lavender Water always command a ready sale. Pears are putting up these two ever-popular toilet waters in most attractive antique glass bottles which you will only have to show to sell. The Eau de Cologne is far superior to any German Cologne, and the Lavender Water is the finest expression yet of the beautiful scent of freshly gathered flowers. Their appearance is an inducement to purchase, and the name "Pears" guarantees the rest.

Pears

DOUBLE - DISTILLED
EAU DE COLOGNE
LAVENDER WATER

A. & F. PEARS, LTD., 71-75 New Oxford Street, LONDON, W.C.1.

INDEX—contd.

JOSEPHS, PHILIP, & SONS, LD. Col. Supp.		NEWSPAPER ILLUSTRATIONS, LD.	42	STEPHENS BROS. & Co., Ess. Oils	20
JOY'S MEDICINAL CAPSULE CO.	xv	NORTHCROFT, H., Rubber Goods	lxiii	STEPHENSON, R. A., LD., Gummed Tape	lxiii
KEENE CO., Aspirin, &c.	xvi	NORTH, V. C., & Co., Fine Chemicals	viii	SUNLIGHT MANFG. CO., LD., Electric ..	lvii
KENT, G. B., & SONS, LD., Brushes ...	37	NORTHERN TIN CANISTER WORKS	41	SURPLUS DISPOSAL BOARD	42
KERRFOOT, T., & Co., LD., Vapez	35	ORELA, LD., Perfumery	20	TAYLOR, A. J., & Co., Gums	xlii
LABORATORY, THE, Embrocation	xxxix	ORISAL, LD., Dental Antiseptic	12	TAYLOR, G. J., & Co., LD.	xlii
LANE, C., & SONS, Chemicals	xviii	P.A.T.A.	xxvii	THAKORE, T. M., & Co.	xlii
LING, JULES, & SON, Glassware	38	PAGE, CHAS., & Co., LD., Chemicals	xi	THERAPEUTIC FOODS CO.	xlii
LEICESTER RUBBER CO., "Mend-a-Tear" ..	lv	PAINE & CO., LD., Matt Extract	33	THEW, HOOKER & GILBEY, Dried Milk	xxxvi
LENNON, LD., Drugs	xlvii	PAPIER POUDE, LD., Toilet Preps.	26	THOMSON & CAPPEL, LD., Tonic	14, lxi
LEVERMORE, A., & Co., LD., Precip.		PARNALL & SONS, Shop Fittings	lxliii	TIMPSON, JOHN, & Co., LD., Baby Powder	liii
Chalk	liv	PEARS, A. & F., LD., Soaps	5	TITTERTON & HOWARD, Brushware	36
LEWIS, A. J. C., Photographic	lv	PERRY & HOPE, LD., Matt Extract	xxxvi	TOMODA & Co., Japanese Chemicals	
LICHENSTEIN & Co., LD., Caramel ... Text		PHARMACEUTICAL LANOLINE CO., Lanoline	16	Drugs	xxv
LINTON, HUBBARD & ANDREW	x, xvi	PICRONE, V. A., Chemicals and Drugs	xxiv	TOMPKINS, J., LD.	1
LOFTHOUSE & SALMER, LD., Health Salts	xi	PICKARD, IVE & RANKIN, LD., Acet.		TOOMBS, A., & Co., Capping Skins	40
LONGARAC TRADING CO., Essential Oils	20	Sal. Acid	v	TURNER BROS. ASBESTOS CO., LD.	lix
LONDON PHARMACEUTICAL REFINERS, LD.	16	POTTER & CLARKE, LD., Herbs,		TOMLINSON & HAYWARD	Text
LUSTY, W., & SONS, Packing Cases ...	lviii	Asthma	xxvii	TOMLINSON & SONS	Col. Supp.
McDOUGALL BROS., LD., Dog Medicines, lvi		PRESTON'S LIVERPOOL DIST. CO., LD.	xlii	TRANSCONTINENTAL AGENCY	xlii
McGLASHAN, D., Fruit Drink	xli	PRICE, A. S., & Co., LD.	lv	UCAL	2
McKESSEN & ROBBINS, Drugs	xx	PURE RUSSIAN LIQUID PARAFFIN CO.,		V.B., Block Licorice Juice	xxviii
MAC SWEET, E., Corn Cure	liv	LD.	xlvi	VAN DER HEYDEN, Nail Files	12
MACFARLANE, J. F., & O., Alkaloids	lii	QUEICH, HENRY C., & Co., Nail Files	21	VAN DER HOEK, G., Bottles	lvii
MACDON'S COMFORTINE CO.	xxxiv	RANSOM, W., & SON, LD., Tinctures Cover		VENESTA, LD., Tinfoil	lviii
MAGNUM, MABRE & REYNARD INC.	16	RAWLEY, R., Capping Skins	40	VICTORS, LD., Sodium Phosphate	vi
MALMBERG, K., Cascara Bark	xxvi	RAWORTH, J. E., & MOSS, Pat. Agents	lv	VISCOSE CO., LD., Bottle Cappings	40
MARBY & Co. (London), LD., Sponges	37	REDDGRAVE BUTLER & Co., Paraffin ... Cover		WAIDE, THOS., & SONS, Chemists' Print-	
MASCO BROS. & CHAPMAN	1	REYNOLDS, A. T., Thermometers	lv	ing	13
MAW, S., SON & SONS, LD.	11	ROBERTS, LD., Toilet Preps.	24	WALDEN, WALDEN & Co., Perfumes	8
MAY & BAKER, LD., Chemicals	Cover	ROBERTS & SHEPPEY	xxxix	WALKER, G., & SON, Saline	xl
MEADE-KING, ROBINSON & Co., LD.	xlvi	ROBERTS' PATENT FILLING MACHINE CO.	lix	WALTON, T. H., & Co., LD., Saccharin	xvi
MEGGESON & Co., LD.	xxx	ROBINSON & SONS, LD., Boxes	1	WARD & GOLDSTONE	lvi
MEINDERSMA, B., Dutch Trade	xxii	RONOIEKE, Hot-Water, Bottles	li	WARRICK BROS., LD., Cachets, Capsules	44
MENDINE CO., Cement	liv	ROQUES, FERDINAND, Alkaloids, Guco-		WASHINGTON CHEMICAL CO., LD.,	
MENLEY & JAMES, LD., Aspirin	xvii	dylates	xxiv	Magnesia	xlii
MENOLAN CO.	xxiv	ROSE, J. L., Pyrogallie Acid	xv	WATFORD MFG. CO., LD., Turtle Ert.	xlii
MENTHOLATUM CO.	xxiv	ROSENBLATT, SAMSON, Chemicals	xxv	WATSON & Co., Photographics Col. Supp.	
MERTEN, F., Showcards	lv	ROZEN, L., & Co., Chemicals	xxiii	WEST-END PHARMACY SUPPLY, Capsules	liv
MIDLAND WHOLESALE, Tooth Powder	32	RUCH, A., & Co., LD., Bottles	39	WESTERN DENTAL MFG. CO., LD.	30
MILLAR, A., & Co., LD., Quinine Wine	lxiii	RUDD, F. M., Essential Oils	20	WESTMINSTER COLLEGE OF PHARMACY	lv
MILLARD BROS., LD., Electric	lvii	RUDDUCK & Co., Shop Fittings Col. Supp.		WHIPPEN & SONS, LD., Emetine Salt ...	vi
MILLBAY SOAP & NEW PATENT CANDLE		SACCHARIN CORPORATION, LD., Novocain	viii	WHITE, J. & J., LD., Bichromates	ii
Co., LD.	Text	SAMPSON & WHITE, LD., French Chalk	xii	WHITEKEE & Co., Hat Dyes, Household	
MILNER'S CHEMICAL CO., Cleaner ...	xxxix	SANITAS CO., LD., Disinfectants	Text	Dyes	xliv
MILNER, J., & Co., Chiropodists' Knives	1	SCHOLL MFG. CO., LD., Foot Appliances	liii	WIGGLESWORTH, LD., Corn Cures ...	Cover
MITCHELL, N. W., & SONS, LD., Corks	40	SCHUTZE, F., & Co., Puffs	lv	WILLIAMS BROS., & Co., Colours	xlv
MORRIS, LITTLE & SON, LD., Sheep		SCOTT, A. W. B., Agency	xxii	WILLOWS, FRANCIS, BUTLER & THOMP-	
Dips, &c.	xxliii	SHADEINE CO., Hair Dyes	liv	son, LD., Drug Grinders, Disinfect-	
MOUSLEY, F. A., Beaverpuff	28	SIBER, HEGNER & Co., Agency	xxii	ants, Foods	20
MULLER LABORATORIES, LD., Nutrient	xxliii	SMITH, MAURICE, & Co., LD.	xxliii	WINOX, LD., Wine	xlii
MURDOCH, J., & Co.	xiv	SMITH, T. & H., LD., Drugs	v	WILLIS, A., & ARTHUR, LD., Perfume	
NAPPER & DAVENPORT, Tube Clips	38	SOCIETEIT VOOR CHEMISCHE INDUSTRIE		Brick	28
NAUMANN, W.	Text	KATWIJE, Caffeine, &c.	xxliii	WINTER, B., & Co., LD., Silver leaf	36
NEUBALL & MASON, Herb Extract ...	xli	SOFTO MANFG. CO., Toilet	29	WOOD BROS., GLASS CO., LD.	39
NEWBERT, F., & SONS, LD., Shaving		SOLERNOU, VIUDA DE JOSE, Agencies ...	xxii	WOOLF, E., Baby Comforter	liii
Cream	30	SORBO SPONGE PRODUCTS	lxiv	WRIGHT, A. J., LD., Electric Lamps, &c.	lix
		STANDARD HEALTH FOOD CO.	iv	WRIGHTS, LD., Pharmaceuticals	Cover
		STANSFIELD, J. L., Cotton Wool	xlii	WYLETS, LD., Bottles	24
		STARUP, G. O., Chemical WORKS	xviii	YOULDON, E., LD., Bottles	12



QUININE

MAARSSSEN

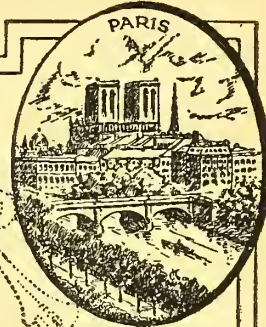
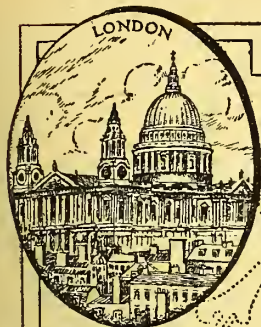
QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality.
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,
and their SALTS.

MANUFACTURED BY
NEDERLANDSCHE KININEFABRIEK, MAARSSSEN, HOLLAND

AGENTS.—R. W. Greeff and Company,
Thames House, Queen Street Place,
LONDON, E.C.4.



PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS.

For spot delivery.

ACETYL SALICYLIC ACID
ANTIPYRIN
BENZOIC ACID
COCAIN
EUCALYPTUS OIL
GALLIC ACID
PYROGALLIC ACID
SALICYLIC ACID
SALICYLATE OF SODA

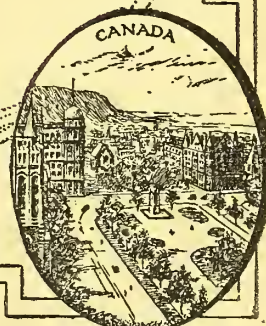
*Enquiries also solicited for our usual range of
Pharmaceutical and Photographic Products.*

R. W. Greeff & Co.

THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.4.

MANCHESTER BRANCH:
Lloyd's Bank Buildings, King Street.

NEW YORK AGENTS:
R. W. Greeff & Co., Inc., 78, Front Street.



ALLEN'S
PERSIC OIL
 IS
 APRICOT KERNEL OIL
 AND IS SUPERIOR TO THE SO-CALLED
 FRENCH ALMOND OIL.

MANUFACTURED BY
STAFFORD ALLEN & SONS, LTD.
 COWPER STREET, FINSBURY, E.C. 2.

ESTABLISHED
1833

Telephone: London Wall 6556
 (3 lin s)

Telegrams: "Persic Finsquare, London."

*Attractive and Profitable
 Lines which Sell at Sight.*

**Norma's
 Eau de Cologne &
 Lavender Water**

QUALITY PAR EXCELLENCE.
 PACKED IN EXCLUSIVELY
 DESIGNED BOTTLES & LABELS

PRICES:

	per Doz.		Retail
Eau de Cologne, 2 oz.	25/6	...	3/-
" 4 oz.	45/-	...	5/6
Lavender Water, 2 oz.	28/6	...	3/6
" 4 oz.	52/6	...	6/6

Also in larger sizes *pro rata*.

SPECIAL QUOTATIONS for QUANTITIES

From your Wholesale House, or

WALDEN, WALDEN & CO.

Manufacturing Perfumers,
 89 Great Portland St., LONDON, W. 1

"Jackel's Cream"

(without Grease)
 for THE HAIR

Sold everywhere

Established 1883.



"Jackel's Cream"
 fixes the hair in any de-
 sired position; is un-
 excelled as a dressing
 and does not soil the
 headware. It removes
 Scurf and Dandruff,
 keeps the scalp healthy,
 and promotes the natu-
 ral growth of the hair
 while maintaining its
 softness and brilliancy.

*Prices for Wholesale and Export
 Houses on application.*

**Jackel et Cie (of Paris)
 Ltd.**

Sauchiehall Street
 GLASGOW

CRYSTALLISED
 1/6 CREAM 2/6

Trade Mark attached to each
 bottle.

Les Parfums de Nicolai

Wholesale and Export only

SHOWROOMS:

Piccadilly Circus

HEAD OFFICE:

19 Hand Court, High Holborn, W.C. 1

Lancashire & Cheshire Agents: Messrs. Midgley, Ltd., Mayes Street, Manchester

We invite your order **now** for our **high-class exclusive** productions for the forthcoming season.
New and beautiful packs—lovely designed bottles and labels—completed in real Paris dainty boxes.

NICOLAÏ "JAZZ" Perfume

(A beautiful boxed creation)

Cost
per doz.

204/-

NICOLAÏ "Trois Fleurs "

(Anglo-French American exclusive gorgeous cut-glass bottles)

156/-

NICOLAÏ A.F.A. Bouquet

(Anglo-French American, a very acceptable gift)

90/-

NICOLAÏ "Brise d'Amérique"

(Quite exclusive—as advertised)

150/-

Smaller size

90/-

NICOLAÏ Rose de Picardie

NICOLAÏ Lily de Provence

NICOLAÏ Le Nouveau Chic

(3 very dainty lines in French grey boxes lined satin)

68/6

**We supply a very smart set of samples of
above Perfumes in boxes of 12 ...**

12/6
per box.

Our specially designed gold and other labels are admittedly the best yet produced.

Please send your orders early, and name month you wish delivery. Our goods and prices will be appreciated by your discriminating clientèle.

We hope the margin of profit you will appreciate.

A.F.A. Chemical Co., Ltd.

“FARRIS’S” GENUINE WHITE BEESWAX. PURE ENGLISH REFINED SPERMACETI.

WAXES of every known kind and for every purpose.

Celebrated for excellence and purity—nearly three quarters of a century.

Large Stocks for Immediate Delivery.

CHARLES FARRIS, 71 BISHOPSGATE, LONDON, E.C.

The only actual Manufacturing Wax Chandler in the City of London.

Works—HELMET COURT, BISHOPSGATE, E.C.

BOTTLES

are scarce and will be scarcer and dearer soon. Lay in a Stock of
Bottled Goods at **PRESENT PRICES.**

VANISHING CREAM, 2-oz. S.C. Jars	....	78/-	per gross	
BRILLIANTINE, 1½-oz. Corked	....	45/-	"	
" 2½-oz. "	....	84/-	"	
BAY RUM & CANTHARIDINE, 3-oz. Panel	....	60/-	"	
" " 8-oz. Round	....	99/-	"	
BAY RUM (Spirit) 3-oz. Panel	....	87/-	"	7/6 per doz.
" " 6-oz. Mexican	....	156/-	"	14/6 "
TOILET PARAFFIN, 3-oz. Panel, Corks	....	57/-	"	
" Best Quality, Sprinklers	....	81/-	"	
8-oz. MIXTURES, cartoned	....	95/-	"	

5 % Monthly Account.

CARMOL, Ltd.

Washington Street,
BIRMINGHAM.

Maw's



TRADE MARK

Page.

S. MAW · SON & SONS · LTD
7/12, ALDERSGATE ST., LONDON, E.C.I., ENGLAND.

No. 414.
20:9:19.

On Goodwill

The statesman wins public trust and goodwill at the expense of years of unremitting industry and the unflagging exercise of tact and judgment.

Yet ONE CARELESSLY SPOKEN SENTENCE CAN RUIN HIS REPUTATION.

Just the same is it with a business. Years of business relationship, characterised by extreme accuracy, individual attention and a generous attitude are necessary for the winning of a customer's goodwill.

One small error can wipe it all off the slate.

The "House of Maw" watches lynx-eyed for the mere possibility of error and misunderstanding.

It is justly jealous of its great reputation.

In every business, however, no matter to what degree of perfection its employees have attained, no matter how comprehensive its service has become, the tiny error will sometimes unperceived slip through the meshes of the net—system.

If and when that occurs in connection with the "House of Maw" (the occurrence is rare, but we do not disguise from ourselves the fact that it is always possible) we invite you to demand reparation instant and complete.

We never forget that the success of our business depends primarily upon the goodwill of you who are the effective link between us and the public.

The two ideals we keep ever before us are the perfection of our goods and the dependability of our service.

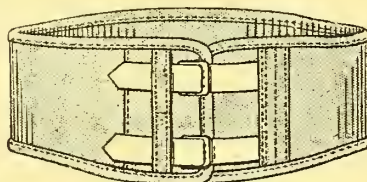
Write and tell us if you have ever been disappointed.

Discuss

Adjustable Belts

Made of superior quality Grey Flannel (lined), the "Aldersgate" Belt is a most useful "stock" line for the pharmacy. It will be found to be most suitable for all cases where warmth and comfort is needed.

The Belt is worth your critical inspection. In make and material it is a worthy "Maw Quality" production in every way.



The "Aldersgate."

Fitted with two strong metal buckles and extra stout webbing straps.

Price 3/3 each.

Showcards supplied with orders of half-dozen and upwards.

Exceptional Glass Opportunities



No. 160.

THESE Lines endorse the policy of "perfect equipment always."

Perfectly fitted cut globe-stopped white fluted Salts Bottle.

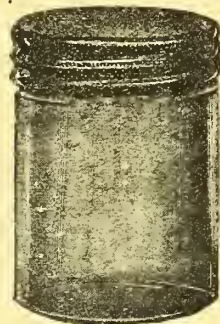
Polished bottom

Price 8/6 dozen.

METAL screw-cap Jars, wide mouthed, with good quality metal caps. Useful for pills, tablets, lip salve, sampling, ointment, etc. In six sizes, as follows:

Oz.	Gross	Oz.	Gross
2 1/2	23/1	2	28/6
1	23/9	3	33/6
1 1/2	25/-	4	36/9

Order No. 1368c's.



WE CAN SUPPLY!!!

from LONDON STOCK

FLEXIBLE NAIL FILES at Lowest Market Prices.
RIGID STEEL and BONE NAIL FILES, IVORY and BONE TRIMMERS.

Best French Cutlery
 Nail Polishers
 Emery Boards
 Chamois Leathers

BOXWOOD—

PUFFS

AND

Vanity Puff Boxes

COMBS

of EVERY DESCRIPTION.

Hypodermic Syringes, 1 c.c., 2 c.c. and
 20 min., complete in cases
 (French) ... 22/- doz.
 .. Naked (French) ... 10/- ..
 .. 10 c.c., complete in cases 66/- ..
 20 c.c. " 81/- ..

CAPPING SKINS

White and Coloured.

—TURNERY

IMPORT

WHOLESALE and EXPORT only supplied.

EXPORT

PARIS

THEO. VAN DER HEYDEN

BRUSSELS

NEW YORK

118-122 Holborn

E.C. 1.

ANTWERP

Telephone: Holborn 1873.

IMPORTANT.

WILL Retail Chemists kindly note that
ORISAL MOUTH WASH
 for PYORRHOEA

is now prepared only in a highly concentrated
 form at 4/9 per bottle retail, the contents
 being four times the strength of those hitherto
 retailed at 2/9.

WHOLESALE PRICES.

Mouth Wash (including Govt. duty, 12/-)
 48/- per doz. ; Retail 4/9 per bot.

Dental Paste (including Govt. duty, 6/-)
 23/- per doz. ; Retail 2/3 per tube.

Obtainable from the principal wholesale
 houses, or direct from

ORISAL LTD.

77 GEORGE STREET,
 PORTMAN SQ., W. 1.

THE name Zenobia is so in-
 timately associated with
 perfection in perfumery, that
 the buying public eagerly
 welcome the Toilet Preparations
 also manufactured by the firm
 of Zenobia, Ltd. Chemists
 will find that the name

ZENOBIA

alone is sufficient to ensure ready sales,
 while the pleasure found in the use of
 Zenobia Specialities in its turn ensures
 satisfied customers. We particularly recom-
 mend

ZENOBIA BRILLANTINES.	ZENOBIA TOILET POWDERS.
-/9d. size.....6/9 per doz.	1/3 size.....10/6 per doz.
1/6 " ... 13/6 " "	2/9 "24/- " "
2/6 " ... 22/6 " "	-7/6d. Poudre Orientale.
	5/6 per doz.

! Subject to usual discount.

A complete Catalogue will be forwarded on
 application to—

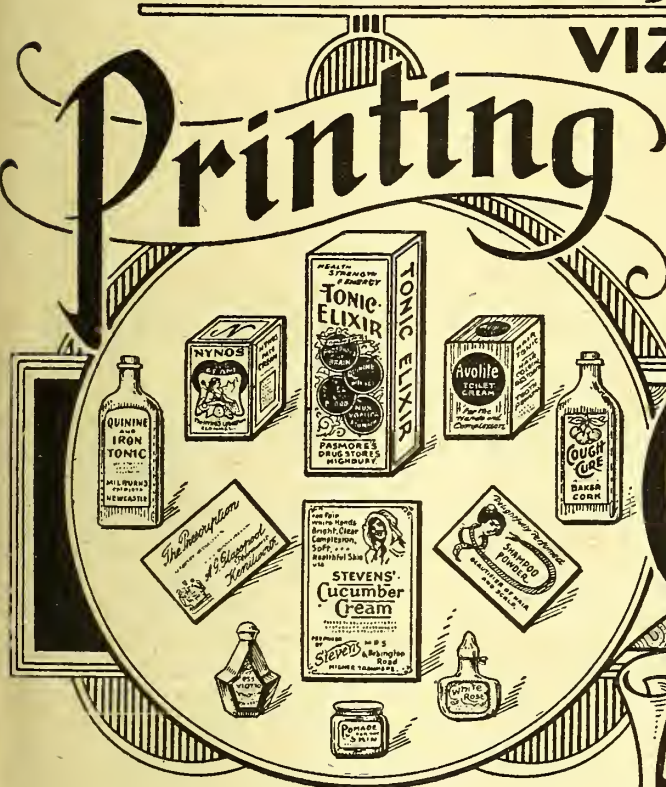
ZENOBIA LTD., Loughborough, ENGLAND

The Most Successful Coalition

VIZ:-

Printing

We have the Greatest reputation in the World as PRINTERS to the Chemist & Medical Profession, and are now supplying over 5000 customers in all parts of the WORLD.



Chemistry



Our 40 Years experience as Chemists Printers enables us to offer to the enterprising Chemist Advertising Material second to none in the World.

Our Specialities:-

BOTTLE CARTONS · SHOW CARDS · PAMPHLETS · CIRCULARS · LABELS · PRESCRIPTION ENVELOPES · POWDER ENVELOPES · TOOTH BRUSH ENVELOPES · CORN SILK ENVELOPES · PRICE LISTS · WRAPPERS · HAND BILLS · POSTERS ·

AND EVERY KIND OF PRINTING THAT IS NECESSARY FOR MAKING OF GOOD BUSINESSES. SEND FOR SAMPLES AND WRITE FOR ADVICE

Telegrams
"WAIDE
LEEDS."

Telephone
22502

FULL SET
OF SAMPLES
SENT TO COLONIES
ON RECEIPT OF
P.O. FOR 10/6
WHICH IS
CREDITED ON A
£10 ORDER

Thomas Waide & Sons,

CHEMIST & MEDICAL PRINTERS,
AND
LITHOGRAPHERS,
Kirkstall Rd, **LEEDS**, England.

WHOLESALE PRICES OF

'QUINPHOS'

'REGD.'

THE GREAT TONIC.

Minimum Retail Price.		Wholesale Price.	
On the P.A.T.A.	1/3	.	11/6 per doz.
	2/11	.	27/-
	5/-	.	48/-

LIQUID OR TABLETS.

CARRIAGE IS PAID ON ORDERS OF 10/- UPWARDS.

A SPECIAL DISCOUNT OF 5% IS GIVEN FOR CASH WITHIN ONE MONTH.

15 INCHES.



29 INCHES.

BONUS FOR WINDOW DISPLAY as above.

- No. 1**—For a 25/- order of "QUINPHOS," equivalent to 1 doz. 1/3 size and $\frac{1}{2}$ doz. 2/11, liquid or tablets or assorted, there is a bonus of $3 \times 1\frac{1}{3}$ size with high-class Cut-out and Showcards for Window.
- No. 2**—For a £3 order of "QUINPHOS," assorted sizes, liquid or tablets or assorted, there is a bonus of $9 \times 1\frac{1}{3}$ size, with high-class Cut-out and Showcards for placing in the Window.
- No. 3**—For a £5 order of "QUINPHOS," assorted sizes, liquid or tablets or assorted, there is a bonus of $15 \times 1\frac{1}{3}$ size, with high-class Cut-out and Showcards for Window Display.

SOLE MAKERS:

THOMPSON & CAPPER, Limited,

Manufacturing Chemists,

Manesty Buildings, College Lane, LIVERPOOL.

Telegrams: "SANTAS LIVERPOOL."

ESTABLISHED 1843.

Telephone: ROYAL 2060.

Ayrton's Royal Orchid

PAGE 15
AYRTON'S

One of the most fascinating Perfumes, daintily packed in a Carton, charmingly decorated with royal purple and gold.

An introductory Card is supplied which harmonises with the label and carton. By happily grouping the cartons and card, a superb display can be quickly arranged.

Each bottle holds approximately 1 oz. of Perfume.

PRICES:

Retail - - - 3/- per bottle.

Wholesale - - - 24/- per dozen.

**Other Odours in
this delightful**

Series are:

Ayrton's Scotch Heather

„ **Sweet Violet**

„ **Golden Daffodil**

„ **English Iris**

„ **Pink Carnation**

AYRTON, SAUNDERS & CO. LTD.
LIVERPOOL

AMERICAN ESSENTIAL OILS

"MOHAWK" BRAND
OIL PEPPERMINT (Natural)

OIL CEDARWOOD OIL HEMLOCK
OIL CEDARLEAF OIL BIRCH

Heliotropine Crystals C.P.
Vanillin C.P.
Coumarin C.P.
Oil Wormseed, American.
Oil Wintergreen Leaf
U.S.P.

MAGNUS, MABEE & REYNARD, Inc.
Essential Oils, Chemicals and Drugs,
NEW YORK - - U.S.A.
Cables—"MAGLAUR."

Cresp-Martineng

(Grasse, France),

Manufacturers of

ESSENCES & PRIME

MATERIALS for MANUFACTURING

PERFUMERS,

CONFECTIONERS,

ETC.

SYNTHETICS,
ARTIFICIAL VIOLETS

(MYRIONE),

ARTIFICIAL MUSK.

ENQUIRIES SOLICITED LARGE STOCKS

ROBERT FERBER, LTD.

98/104 OAKLEY STREET,
LONDON - S.E. 1.

Agents for
the UNITED
KINGDOM &
CANADA.

"Lanzone" Lanolin

The Odourless Adeps Lanæ, B.P. Manufactured by
THE LONDON PHARMACEUTICAL REFINERS, LIMITED,
Martin's Yard, Endwell Road - LONDON, S.E. 4.

In a leading article in the "Medical Press" of June 26, 1918, occurs the following:—

"I hope that the same effort will be made to abolish Hun drugs as to get rid of Hun dyes. In one direction I am glad to find that this is being seriously attempted. One of the most important bases for ointments is lanoline. Now the English lanoline which is made by the London Pharmaceutical Refiners, Limited, of Brockley, has the merit of being superior to the old German lanoline. The B.P. allowance of fatty acids is '7, whereas this new English lanoline shows only '27. The new preparation is quite odourless, and acid fats do not develop in it by keeping. These are great merits, and show the extreme care with which the refining process has been carried out by the British refiners."

Samples and Quotations from the Selling Agents:

THE PRODUCE BROKERS' COMPANY, LIMITED, 24 St. Mary Axe, LONDON, E.C. 3.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.



Erasmic Perfumery.

XMAS SEASON, 1919.

Perfumery for your Xmas Trade should be ordered at once if you wish to have it in stock ready to supply the enormous demand for "ERASMIC."

Owing to the difficulties under which we are working, we regret we cannot guarantee delivery unless we know your requirements within the next few weeks.

Please communicate at once with our Representative, or direct with

ERASMIC, Perfumers, WARRINGTON.

T.M. SMOKER'S TOOTH PASTE

A real smoker's dentifrice made to a formula that has been proven to fulfil all the needs of a smoker. *Not an ordinary* tooth paste put up to appeal to smokers—a thoroughly genuine article. Heavily advertised as such.

9/9 1/3

PER DOZ. P.A.T.A., E.A.

In 1 doz. Show Outers.



T.M. SMOKER'S TOOTH POWDER

Just the same line packed to sympathise with the tubes. It fills the need of the smoker who prefers "grip" with his daily dentifrice, rather than the "slide" of paste. A really well-made tin of superlative appearance.

3/9 7 1/2 d.

PER DOZ. P.A.T.A., E.A.

In 3 doz. Decorated Cartons.

WITH CHEERFUL "T.M." IN YOUR WINDOW

your sales won't be wanting. He does everything for you bar wrapping, handling and taking the money. He is a *proved* business getter. The show is produced in many colours, and can be set up in a couple of minutes.

Where "T.M." is working there's very few slack moments at the Counter. Engage him and see.

WE WILL SEND YOU THIS KNOWN "BUSINESS PULLER" IF

**OUTLAY
81/-**

You order 6 doz. Paste at 9/9 (1/3 doz. Bonus) and 6 doz. "T.M." Tooth Powder. It will be sent along with "Cheerful T.M." and other cards. Orders in rotation.

**PROFIT
61/6**

THOS. CHRISTY & CO.
4-12 Old Swan Lane, E.C.4.

CARRIAGE PAID AT ONCE.

THOS. CHRISTY & CO.
4-12 Old Swan Lane, E.C.4.



QUALITY RANKS
FIRST WITH EXPERT BUYERS

Sicilian Oils

Siles'

**Bergamot,
Lemon & Orange Oils,**
Terpeneless and Sesquiterpeneless Oils

Manufactured by the
CITRUS OILS CO., Acireale (Sicily)

Spanish Oils

**Thyme, 35/50% Phenols.
Spike, Rosemary, Pennyroyal, etc.**

Shipped by
SOCIEDAD ANONIMA MONEGAL,
BARCELONA

Agency and Depot:—
W. H. HOBBS & Co. Ltd.
TRINITY PLACE, LONDON, E.C. 3.

Telegrams:
"Gingerade, Fen, London"

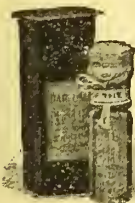
Telephones:
Avenue 666 and 1544



NOW IS THE TIME TO ORDER

THE EMPIRE CONCRETE PERFUMES

These represent the latest efforts of the Perfumer Chemist. They are made without alcohol, being the essential principles of the flowers freed from wax, etc. One drop is sufficient to perfume the handkerchief for days. Made in twenty odours, including Cologne and Lavender.



E121. In pedestal case,
18/6 doz.



E122. In velvet-lined jewel
case, 22/6 doz.



E123. In boxwood case,
25/6 doz.



E124. 12/6 doz.

ONE-DROP PERFUMES.

These are not so concentrated as the above, but are free from alcohol and exceedingly good value.

Made in twenty odours, including Cologne and Lavender.

All are packed in rod stoppered bottles.

THE EMPIRE PERFUMERY CO., OLDBURY, ENGLAND

(CUXSON, GERRARD & CO., LTD., Proprietors)

EXPORT & COLONIAL INQUIRIES SPECIALLY INVITED.

ROURE BERTRAND FILS, GRASSE.*Established
1820.***LAVENDER (French), SPIKE LAVENDER (French and Spanish)**

NEROLI, GERANIUM (AFRICAN and BOURBON), SANDALWOOD. PETITGRAIN (FRENCH and AMERICAN),

VETIVER (JAVA and REUNION), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.

ORRIS CONCRETE and LIQUID.

ESSENCES, SOLIDES and LIQUIDS from flowers.

RESINOIDS and POMADES

We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France**Makers of SYNTHETIC PERFUMES**

and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:

STEPHENS BROTHERS & CO., 2, 5, & 6 Bury Court, St. Mary Axe, London, E.C.3.

Wholesale Houses only supplied.

PURE SPANISH ESSENTIAL OILS

(LONABARC BRAND).

ROSEMARY**PENNYROYAL****FENNEL (SWEET & BITTER)****LAVENDER****THYME (RED & WHITE)****ORANGE****GERANIUM****SAGE****LEMON****THYMOL****ACONITE ROOT****LAVENDER FLOWERS****GENTIAN ROOT****QUINCE SEEDS**Write for samples and prices to **LONABARC TRADING CO., LTD., 5 FINSBURY SQUARE, E.C. 2.**

'Phone: LONDON WALL 9020.

ORELA LTD.

(Late Parfumerie Aristocratique of Paris. Estab. 1899.)

37 Berners Street, London, W.1.*Our factory has been trans-
ferred from Paris to London.***Quality, Elegance, Large Profit, Prompt Service.****We manufacture**Face Powders, Toilet Creams, Face and Hair Lotions, Concentrated
Perfumes, Artificial Oils, Eau de Cologne, and perfumery and toilet
products of all kinds, "Own Name" being a speciality.*Wholesale and Export Selling Agent:***C. W. PARKER,****23 Coleman Street, LONDON, E.C. 1.**

Telephone: Regent 4506.

F. M. RUDD,**Bronson,****MICHIGAN,****U.S.A.****GENUINE AMERICAN
PEPPERMINT OIL***"Columbia" Natural
"Diamond White"
Re-distilled.*Finest qualities for Druggists,
Distillers and Confectioners.*Sole Consignees in United Kingdom—***R. W. GREEFF & CO.****Thames House,****Queen St. Place, LONDON, E.C.****GALENICALS****FROM CHEMICALLY AND PHYSIOLOGICALLY TESTED DRUGS.****Willows, Francis, Butler & Thompson, Ltd.,
40 Aldersgate Street, LONDON, E.C.**

Flexible Nail Files.

MANUFACTURED BY

C. H. BATES & CO., Chester, Conn., U.S.A.

Removal of Restriction of Imports.

**FIRST
QUALITY.**

PLAIN STEEL.

No. 3707.

3 in., 5/6 doz.

3½ " 5/6 "

4 " 5/6 "

4½ " 6/3 "

5 " 6/9 "

5½ " 7/6 "

6 " 8/- "

7 " 9/- "

8 " 10/- "

Carded.



Assorted, on cards, 3 in. to 6 in., 7/6 doz.

**SUPER
QUALITY.**

**PLATINUM
FINISH.**

3 in., 11/6 doz.

3½ " 11/6 "

4 " 11/6 "

4½ " 12/- "

5 " 14/- "

5½ " 15/3 "

6 " 17/3 "

Carded.

All the above are IN STOCK in LONDON.

Special Quotations to Exporters and Wholesalers.

Supplies can be obtained from all London and Provincial Wholesale Houses. Be sure that every card is stamped

"BATES" Flexible Files.

SOLE AGENTS :

HENRY C. QUELCH & CO., 4 & 5 Ludgate Sq., London, E.C.4.

— **SICILIAN** —
LEMON - BERGAMOT
ORANGE - MANDARINE.
— **SPINELLI** —

**THE OILS THAT HAVE A LONG
REPUTATION FOR QUALITY.**

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any
:: :: :: analysis as to purity. :: :: ::

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E. 1

A B C Code, 5th Edition
Western Union.

Telegrams: "LANDSLQH, LONDON."
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO., INC., 99-101 Beekman Street, NEW YORK.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, TORONTO.

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay

Bergamot

Caraway

Cassia

Cinnamon

Clove

Dill



Geranium

Ginger

Juniper Berry

Lavender

Lemon

Limes

CITRAL

EUCALYPTOL

Mandarin

Nutmeg

Orange

Peppermint

Petitgrain

Rosemary



CINNAMIC

ALDEHYDE

GERANIOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

ABC Code (5th Edition).
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

AMERICAN AGENTS—O. A. BROWN CO., INC., 99-101 Beekman St., New York.
CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, Toronto.

DECOLTENE

The hoid hair remover

The intelligent depilatory. Simple, safe and effective. Can be used while performing the toilet.



Dinkie
Dainty Deodorant

The greaseless cream that takes all odour out of perspiration. Packed in attractive opal jars.

DIADEM
Crème Rouge

Gives a natural colour to the cheeks. Far more convenient in use than dry rouge. Easily removable.

DIADEM
Face Powder

Adheres readily to the skin. Made in Blanche, Naturelle, Rachel, Rose and Sunburn tints. In large artistic boxes, in distinctive style.

DIADEM
Eau de Cologne.

A Perfume of most exquisite fragrance. Cooling, lasting and refreshing. In handsome sprinkler bottles.

DIADEM
Vanishing Cream

A cream of rare purity and charm, put up in novel white globes and packed in dainty boxes in attractive style.

DIADEM
WAX *For the Complexion*

Completely supersedes the customary greasy Toilet Creams. Pleasant in use and commands ready sales. In elegant large jars.

DIADEM
Talcum Powder

The ideal powder for Nursery and Toilet. Choicely perfumed, and may be used with impunity on the most sensitive skin.

TRADE TERMS.

P.A.T.A. Trade per doz.

Decoltene Depilatory	3/9 ..	30/-
Dinkie Deodorant	2/6 ..	20/-
Diadem Face Powder	2/6 ..	20/-
.. Complexion Wax	2/6 ..	20/-
.. Crème Rouge	2/6 ..	20/-
.. Vanishing Cream	3/9 ..	30/-
.. Talcum Powder	1/3 ..	10/-
.. Eau de Cologne .. 1 oz.	1/9 ..	14/-
.. " " .. 2 oz.	3/3 ..	26/-
.. " " .. 4 oz.	6/- ..	48/-

NOTICE.

Artistic Showcards and Counter Matter free on request. Robartes' Preparations are obtainable from all leading wholesale houses.

Largely advertised in all the leading dailies, weeklies and monthlies.

Further particulars and descriptive booklet forwarded on request.

ROBARTES, Ltd., Dyer's Buildings, Holborn Bars, London, E.C.1.

E. YOULDON, LTD.

MANUFACTURERS OF

GLASS BOTTLES

TREBY ST. (late Carter St.),
Maplin St., Mile End, London, E.

ESTABLISHED 1840.

Telegrams: "YOULDON, BOWBUR, LONDON."

Telephone: EAST 132.

FACE CREAM. TOOTH POWDER. NAIL POLISH
" POWDER. " PASTE. HAIR CREAM
BRILLIANTINE, Solid and Liquid. PERFUMES
VIOLET POWDER. TALCUM. TOILET OATMEAL
SHAMPOO POWDER & LIQUID. MASSAGE CREAM

Your own formula prepared, or we can supply ingredients if desired.
Send for samples and quotations.

A. CONNELL & CO., 3 Jewry Street, LONDON, E.C. 3

PHONE-AVENUE 1945.

WE HAVE RELUCTANTLY BEEN COMPELLED,
OWING TO THE INCREASED COST OF RAW
MATERIALS, BOTTLES, LABOUR, ETC., TO RAISE
THE PRICES OF

POTTER & MOORE'S MITCHAM LAVENDER WATER

The following prices will rule from August 11, 1919:

Size		Wholesale Price		Retail Price
No. 43	....	18/- per dozen	....	2/- each
No. 44	....	32/- per dozen	....	3/9 each
No. 45	....	60/- per dozen	....	7/- each
No. 46	....	100/- per dozen	....	11/6 each
$\frac{1}{4}$ -pint	....	100/- per dozen	....	11/6 each
$\frac{1}{2}$ -pint	....	160/- per dozen	....	20/- each
1-pint	....	300/- per dozen	....	35/- each
Pocket Flasks	....	30/- per dozen	....	3/6 each

TERMS:

5% DEDUCTED from a parcel exceeding £5 in value.
10% DEDUCTED from a parcel exceeding £10 in value.
2½% DISCOUNT allowed if account be settled within 30 days.
90 DAYS, nett.

SOLE PROPRIETORS:

W. J. BUSH & CO., LTD.
ASH GROVE, HACKNEY, E. 8
DISTILLERY: MITCHAM, SURREY.

PAPIER POUDRÉ

AND "POPPŒA" PREPARATIONS.

TRADE

MARKS

**BRITISH MADE
GOODS**



"LEHCARESOR."

Papier Poudre

**Our Sunburn Tint
For Landworkers
and
Seaside Visitors.**

Booklets - - - 8d. & 1/4
5/- & 10/- per doz. net.

Beware of Spurious Imitations.

REGISTERED



PAPIER POUDRÉ, LTD.,

20 Baker St., Portman Sq., London, W.
and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

NEW PAPIER POUDRÉ PRICES.

WHITE, ROSE, or RACHEL Tints, 4d., 6d., 8d., and 1/4 size
Booklets at 2/8, 3/9, 5/-, and 10/- per dozen net respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

REFILLS to MIRROR CASES in WHITE or RACHEL 2/8 per doz. net.
1/4 SHAVING PADS, FOR USE AFTER SHAVING (unscented, white only) 10/- " "

THE ALL-BRITISH "POPPŒA" PREPARATIONS.

"Poppœa"

NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature Understudy.

IN PADS, 8d. each.
5/- per doz. net.

IN MIRROR CASES, 1/4 each, 10 - per doz. net.
REFILLS, 6d. each, at 3/9 per doz. net.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2/6 & 3/6 each; 9/6, 24/ & 28/- doz. net respectively
"POPPŒA" CIRCASSIAN CREAM " 1/2, 2/6 & 3/6 " 9/6, 24/- & 28/- " "
"POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- doz. net respectively.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQUARE, LONDON, W.1

VEN-YUSA

Shampoo Powders

DAINTY
ATTRACTIVE
PROFITABLE

AND

Well Advertised



PRICES—3d. size, 11/- for carton
containing 6 dozen Powders.

1/6 size, 13/6 per dozen
cartons

C. E. FULFORD, LTD., LEEDS.

DEARBORN

LIMITED

37 Gray's Inn Road, London, W.C.

Toilet Specialities.

		Price per dozen to Retailer	Selling Price P.A.T.A.
PILENTA SOAP	-	10/-	1/-
A complexion Soap.			
PROLACTUM	-	10/-	1/-
For the lips.			
PARSIDIUM JELLY.	-	10/-	1/-
For wrinkles.			
ALLACITE of ORANGE	-	22/6	2/6
A dressing cream. BLOSSOM			
BORANIUM	-	22/6	2/6
A hair tonic.			
CLEMINITE	-	22/6	2/6
For a face lotion.			
COLLIANDUM	-	22/6	2/6
For a face tint.			
TEKKO PASTE	-	22/6	2/6
Camphor cream.			
SILMERINE	-	22/6	2/6
Hair curling fluid.			
PERGOL	-	22/6	2/6
A deodorant.			
STALLAX	-	22/6	2/6
For a shampoo.			
JETTALINE	-	31/6	3/6
For clearing the skin.			
PHEMINOL	-	36/-	4/-
A depilatory.			
MENNALINE	-	36/-	4/-
For the eyelashes.			
MERCOLIZED WAX	-	31/6	3/6
A face cream.			
STYMOL	-	36/-	4/-
For oily complexions and blackheads.			
BARSYDE	-	22/6	2/6
Dandruff eradicator.			
TAMMALITE	-	22/6	2/6
For grey and faded hair.			
LIQUID PERGOL	-	31/6	3/6
To check excessive perspiration locally.			
BICROLIUM	-	22/6	2/6
For whitening the hands.			
HARAPOSA	-	22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town).
SIEVE BROS. & KARNOVSKY (Johannesburg).

INDIA:
KEMP & CO., Ltd. (BOMBAY).
R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA:
DEARBORN, Ltd., CALLA SALTA, 264, Buenos Aires.

SALES
BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME
BRICK

FOR LINEN CUPBOARD AND WARDROBE.

Retail Price, 6d.

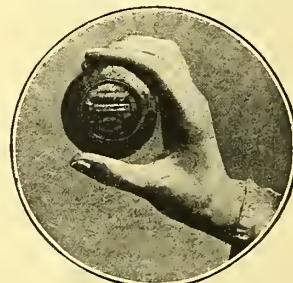
Of the Makers:

ALBERT WILLIS & ARTHUR, Ltd.
6 Mortimer St., London, W.
AND ALL WHOLESALERS.

MOUSLEY'S 'BEAVERPUFF'

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.



Just out. Demand great.
Delightfully soft in use.
Superior to artificial Puffs.
Write for Prices and Terms

F. A. MOUSLEY
(MAKER)

Priest Bridge, Mortlake,
London, S.W. 14.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

The Super Paste

If your wholesaler has not sent you sufficient advertising matter for window display, drop us a postcard and we will send you a good assortment, post free.

SOLE MANUFACTURERS & PROPRIETORS:

A. & E. CARRERAS, *Perfumers,*

Offices : 207 King St., Hammersmith, London, W.6.

Telephone :
HAMMERSMITH 600

Telegrams :
"ESOLINDOL, HAMMER,
LONDON."

On the P.A.T.A. Always in demand.



Less than 1 gross **14/-** doz.

1 gross **160/-**.

Sold to the Public at **1/6**.

"SoToL" NON-CARBOLIC **Tooth Powder**

sold to the Public in Shilling Boxes, Tins or Flasks—to Pharmacists at

8/- per doz. **7/9** by 6 doz.

7/6 per doz. in gross lots and up.

"SoToL" **Tooth Paste.**

1/3 per tube. **10/-** per doz. Trade Price.

Inquiries for Advertising Matter, Prices, &c., to

THE WESTERN DENTAL MFG. CO., Ltd.
74 Wigmore Street, London, W.1.

"Newbery's"
FRANCIS NEWBERRY & SONS

"A1"
SHAVING CREAM

UNDER ROYAL, NAVAL &
MILITARY PATRONAGE.

This High-Class Shaving Cream will appeal to the elite of your Customers.

Add to your Stock a few A1 Shaving Cream and be wise.

18/- per dozen.

CHARTERHOUSE SQUARE,
LONDON, E.C. 1.



More Profit

You get *more profit* from the goods people want—in fact they are the only kind worth bothering about. Hence it pays to sell goods that are well advertised—for which the demand is created—which bring quick profits and save you time and trouble. *So buy and show*

Icilma

Toilet Preparations

Our continued success is easy to understand. *We supply good goods—our advertising is good and the profits are good.* We deal fairly and squarely with all sections—with the public—with the retailer—and with the wholesaler. That is our fixed policy—it has paid us—and incidentally you.

Stock our goods and share our success.

Special heavy advertising is appearing in all the leading newspapers and periodicals during September and onwards.

**Supplies now Normal
Pre-War Quality Guaranteed**

Price Lists and Display Terms post free on request.

Manufacturers — Icilma Company, Limited,
Sole Distributors—International Icilma Trading Co., Ltd.,

37, 39, 41, 43, King's Road,
ST. PANCRAS, London, N.W.1



The Finest Quality
Aerated Waters are
made only with
the Finest Quality
ESSENCES

**BOAKE
ROBERTS**

Soluble Essences are
of the finest quality
and being extremely
concentrated are
most economical

Lemon	Ginger Ale
Orange	Stone Ginger (Cloudy)
Ginger	Clear Ginger Beer
Raspberry	Kola Champagne
Strawberry	Lime Juice and Soda
Pineapple	Lemon Squash Vanilla

A. Boake, Roberts & Co. Ltd.
Stratford, London. E15.

Sell the article that pays for itself.

Our lines are Finest.

Large buyers of
Pomade Hongroise
Styptic Pencils
Nail Polish
Cloth Cleaners
Antiseptic Shaving Blocks
Razor Paste &c

Should write to :-
Delphinus Mfg. Co.,
445 Edward St.,
Brighton.

Telegrams. Sussex.
"Hongroise, Brighton" England.

Export to all Countries.

Best attention to all orders received.

The Public are demanding "OKOS" Tooth Powder

*A wonderfully fine Tooth Powder.
with a refreshing Mint Flavour.*

We do not want to handle mail-order
business. Every Chemist should sell

OKOS.

7½d. per tin.
Retail.

£3 PER GROSS
15 dozen to the gross.

*The Biggest Tin at
the Smallest Price.*

To introduce "OKOS" to the Trade, we are offering 15 dozen to the gross, carriage paid, for cash with order, until further notice. Smaller Orders through your Wholesaler.

"OKOS" is being well advertised—you are sure to be asked for "OKOS." Don't disappoint a customer; get your stock in NOW. "OKOS" is beautifully put up under attractive labels and cartons, dummies of which we will supply for Window Display on request.

Sole Proprietors—

THE MIDLAND WHOLESALE,
2 Regent Place, Leamington Spa.

*This Showcard, printed in FIVE
COLOURS, supplied FREE.*



SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

**NEWFOUNDLAND NON-FREEZING
MEDICINAL COD LIVER OIL**

OF NEW SEASON'S MAKE.

Highest possible quality in 'smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL"

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

“ John Bull ”



MALT EXTRACT

IS THE BEST!!!

Wholesale & Export Only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

ALL REACTIONS ^{of the} **Body Fluids and Tissues are COLLOIDAL.**

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphous with the elements of the body.

CROOKES'

COLLOSOLS

"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

COLLOSOL SULPHUR

Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spa treatment, practitioners will find Collosol Sulphur invaluable.

It is prepared in five different forms—for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:—

**ARGENTUM, ARSENICUM, CUPRUM,
FERRUM, HYDRARGYRUM, IODINE,
MANGANESIIUM, PALLADIUM.**

Kindly Note Change of Address

Particulars, Literature, and Reports from

The CROOKES' LABORATORIES

22 CHENIES STREET, TOTTENHAM COURT ROAD, W.C. 1.

Telephone: MUSEUM 3663.



*Awake ! for morning in the bowl of night,
Has flung the stone which puts the stars to flight ;
And lo ! the hunter of the East has caught
The Sultan's turret in a noose of light.*

—Omar Khayyam.

THE dawn of a new Cold-in-the-Head season finds "Vapex" established in public favour as firmly as are the Pyramids on their desert rock, or, may we add, the double-sphinx trade mark in pharmaceutical estimation. As one of the very few preventives that gained added prestige during the influenza epidemics of 1918-19, "Vapex" is now more saleable than ever, and the vigorous advertising campaign behind it tends to make "Vapex" better and ever better known. It is now desirable to order a good supply for the winter season.

"Vapex" retails at 2/- per bottle, including stamp.
The trade prices allow a satisfactory margin of profit.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

COPYRIGHT

BIDWELLS' LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn, -	18/-
Mitre - - -	14/-
Elephant - - -	12/-
Anchor - - -	10/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We do not Sell Foreign Tooth Brushes.

A selected £10 parcel of Hair Brushes from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.



JUST RECEIVED.

CONSIGNMENTS OF

from
Tooth Brushes 4/9

dozen.
Hair Brushes 20/-

dozen.

EARLY INQUIRIES SOLICITED.

WRITE OR PHONE—

ARTHUR BERTON, LTD.,

Manufacturers,

Offices and Warehouse: **15-17 Worship Street, LONDON, E.C. 2.**

Telegrams:

Phones:

"Aybelim, Finsquare, London."

London Wall 507, City 998.

REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO. LTD.

Head Office: 64 Cheapside, London, E.C. 2.

TELEPHONE: Central 985.

"CORRUGATED" ROLLS AND BOXES (Collapsible)

Cut Pieces. Cartons for Packing. Waxed Papers. Greaseproof Papers. Waxed Corrugated. Tinted Corrugated. Strong "Outers."

Complete Packing Schemes. Keenest Prices. Inquiries Welcomed.

IMPORTANT. Address all letters to:

I. M. RICHARDSON, Manager,

GUILDHALL CORRUGATED PACKING MATERIALS CO.

Guildhall Buildings, Navigation Street, Birmingham.

Titterton's

Celebrated
TOILET

Brushware



TITTERTON & HOWARD, Brush Manufacturers, 8 & 10 Great Titchfield St., London, W. 1.

FACTORY: ALBION WORKS, DALSTON LANE, E. 8.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH RUSHES

Please write for full Particulars to—

75 Farringdon Road, E.C. 1.

TOOTH BRUSHES

25 GROSS.
Full-size, with Trans-
parent handles.
Good quality.

Price 90/- gross for the lot, or 96/- single gross
Sample dozen 8/6, cash with order

D. W. BULL, 4 Churchill Rd., Homerton, E.9

PIPES AND SMOKERS' REQUISITES.

Price Lists on Application.

HARWOOD BROTHERS,

BRIAR PIPE MANUFACTURERS,

8/20 Richmond Street, LIVERPOOL.

MIRRORS

Bevelled Glass. Ivory-Celluloid, Ebony or Wooden
handles, ordinary and ring handles.

NICKEL

SHAVING MIRRORS

With Plain and Magnifying Glass.

High-class Ivory-Celluloid

POWDER and SOAP BOXES

PUFFS

SHAVING BRUSHES

[including

REAL AND MIXED BADGERS.

CAMEL HAIR BRUSHES

For Art and Medical Purposes.

Wholesale and Export only Supplied.

A. E. DEPRETER

24 HOLBORN, LONDON, E.C. 1.

Phone: Holborn 3182. Grams: "Aedeprelon-Smith, London."

FEATHEREDGE Rubber Sponges

LARGE STOCKS ARRIVING

THOROUGHLY
SANITARY
AND
DO NOT
HARDEN

Very
GOOD
PROFITS
for the
Retailer

OBTAINABLE
OF ALL
DRUGGISTS'
SUNDRIES
HOUSES



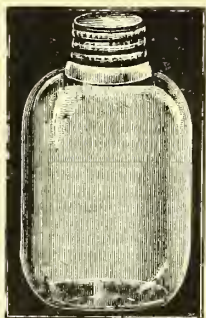
Markt & Co., London,
—LTD.—

American Merchants,

SOLE IMPORTERS,

98-100 CLERKENWELL RD.,
LONDON, E.C. 1.

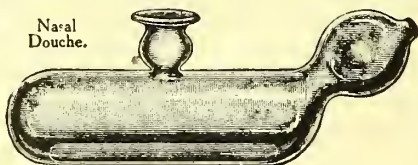
BUY YOUR GLASS FROM STOCK



Telephone :
North 2770 (3 lines)

Telegrams :
"Assorted, Phone, London."

Nasal
Douche.



Without boasting, we have the largest London stocks of small and medium bottles. We cannot stock everything, but we can safely say that we have stock of the most saleable lines, including vials. Please communicate with us before ordering elsewhere.



$\frac{1}{2}$ oz., 1 oz. & 2 oz.

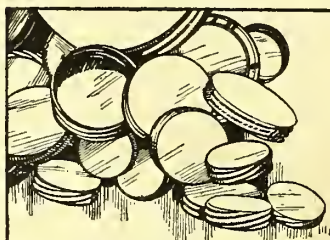
JULES LANG & SON

CHARLTON WORKS, CHARLTON PLACE,
(Opposite Agricultural Hall) ISLINGTON, LONDON, N.1

Warehouses also at Barnsbury and off City Road.

Rod-Stoppered Essence Bottles

FRANK A. CONDUIT,
SUTTON HOUSE,
2 OLD STREET,
LONDON, E.C. 1.



YOUR OWN IDEAS
CARRIED INTO
PRACTICE

NAPPER & DAVENPORT

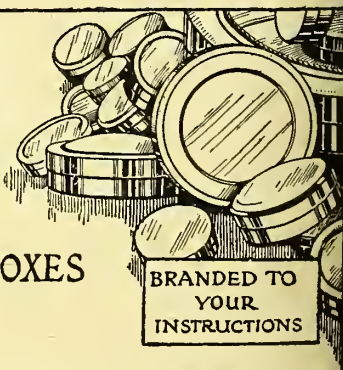
7-11 St George's Place BIRMINGHAM

PRODUCERS of BETTER CLASS CONTAINERS
and FITTINGS for MANUFACTURERS of
TOILET and SIMILAR PREPARATIONS

SCREW CAPS & SMALL ROUND BOXES
IN ALUMINIUM & OTHER
NICKELLED ZINC METALS



TUBE CLIPS



BRANDED TO
YOUR
INSTRUCTIONS



**ELLIOTT OPTICAL
COMPANY**

(GUY E. DRUIFF, PROP.R.)

for

**General Optical
SUPPLIES.**

104/105 GT. SAFFRON HILL,
LONDON, E.C.1.



Entirely free from Lead.

*Graduated Apparatus of all Kinds, Burettes, Pipettes,
Test Mixers etc. Certificates by the National Physical
Laboratory as to Accuracy can be supplied where
required.*

**WE MAKE
GLASS
BOTTLES**



All kinds, Shapes and Colours.
Plain, Screw-capped and Stoppered.

GEO. G. FORSYTH,

A. RUCH & CO., LTD.

28 Martins Lane, Cannon Street,
LONDON, E.C. 4.

**Only Wholesale
Quantities Supplied.**

Phone: Central 4799. Telegrams: "Sennock, Cannon, London."

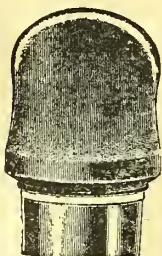
STOCKERS AT

Auckland, N.Z.—G. W. Wilton & Co., Ltd.
Belfast—C. & J. Montgomery.
Birmingham—Staudley Belcher & Mason, Ltd.
Birmingham—Phillip Harris & Co. (1913), Ltd.
Bombay—Kemp & Co., Ltd.
Bradford—Harrison, Parkinson & Co.
Bristol—Ferre & Co., Ltd.
Cape Town, S.A.—Heynes Matthew, Ltd.
Dublin—J. M. Malben & Co., Ltd.
Dublin—Laboratory Supplies Co.
Edinburgh—Baird & Tatlock, Ltd.
Glasgow—Baird & Tatlock, Ltd.
Glasgow—McQuiklin & Co.
Glasgow—Thomson, Skinner & Hamilton, Ltd.
Huddersfield—Ralph Cuthbert, Ltd.
Hull—E. B. Atkinson & Co.
Landore, S.W.—T. Dryden.
Leeds—Reynolds & Branson, Ltd.
Leicester—J. Young & Sons.
Lincoln—Battie, Son & Maltby.
Liverpool—Baird & Tatlock, Ltd.
Liverpool—J. W. Towers & Co., Ltd.
London—Wm. Toogood, Ltd.
Manchester—Baird & Tatlock, Ltd.
Manchester—Orme & Co.
Manchester—Scientific Glass Blowing Co.
Middlesbrough—Middletown & Co.
Newcastle-on-Tyne—Brady & Martin, Ltd.
Newcastle-on-Tyne—Urwin & Co.
Sheffield—J. Preston.
Stockton-on-Tees—W. Finlayson.
Sydney, Australia—Elliott Bros.
Widnes—J. W. Towers & Co., Ltd.
Wellington, N.Z.—G. W. Wilton & Co., Ltd.
York—Bleasdale, Ltd.

SOUTH AFRICAN AGENTS—

W. R. EVERETT, Ltd.,
Jape Town and Johannesburg

WOOD BROS GLASS COMPANY, LTD BARNESLEY, ENGLAND.
(ESTABLISHED 1828.)

IMMEDIATE DELIVERY**GATES' BOTTLE CAPPING SKINS****SNOW-WHITE OPAQUE ROLLED SKINS.**

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. Used by all the Leading Perfumery and Drug Houses. ABSOLUTELY AS OPAQUE as Split Skins and equal in appearance.

"Mine beat all others."



"SOLE PIONEER" and Only

English Manufacturer:

LESLIE GATES
HAILSHAM, SUSSEX.

Another New Specialty.—Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

Talks to CHEMISTS.**No. 1 is about PRICES.**

STOP thinking of things as they were four years ago. What was fair *then* is not fair *now*. Conditions have changed. Since March raw material has advanced 20 %, and quite recently wages have gone up 35 %—and even *this* must not be regarded as final.

Meantime our prices must advance part the way, viz. 15 %, to help us meet the new conditions. Not unreasonable, is it when you know the facts? Prosperity for all means a fair deal for all, whether the thing sold is food, labour, capital—or *Corks* ! Move on. Keep going. Pull your share of the load. Buy

PYRAMID CORKS

And, in so doing, know that you are getting the most your money will buy.

N. W. Mitchell & Sons, Ltd.

"The Cork Firm,"

Limehouse.

London, E. 14

**CAPPING SKINS**

WHITE AND COLOURED SPLITS,
OPAQUE AND TRANSPARENT
BAUDRUCHE. SPRINKLERS.

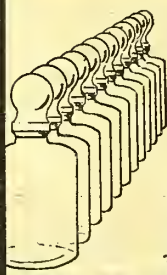
ARTHUR TOOMBS & CO.

Perfumers' Sundriesmen,

26-27 Bush Lane, Cannon St., LONDON, E.C.4.

Telephone: Central 13374.

Telegraphic Address: "Deflection, Cannon, London."



You can cap a DOZEN bottles with

SEMREH BOTTLE CAPS

In the time it takes to fit and tie down one of the old-fashioned paper sort—and with better results. Details from

THE VISCOSE Development Co., Ltd.,
Bromley, Kent.

To Perfumers and Druggists.

If you wish to get the best value for money follow the lead of all large consumers, and place your orders for

BOTTLE CAPPING SKINS

OPAQUE and TRANSPARENT, with

Robert Rawley,

149 Gray's Inn Road,
LONDON, W.C.1.

My Capping Skins are known to all large consumers to be the best on the market both for quality and price. They are all manufactured in London. Write for samples and particulars and compare with your present supplies, and see what I save you.

OPAQUE ROLLED SKINS made to order if required.

PLEASE NOTE MY ONLY ADDRESS:

ROBERT RAWLEY,

Harcourt House,

149 GRAY'S INN ROAD, LONDON, W.C.1.



MANUFACTURERS
OF



Collapsible Metallic Tubes

For Artists' Colours, Tooth Pastes, Lanoline, &c.



SPRINKLERS

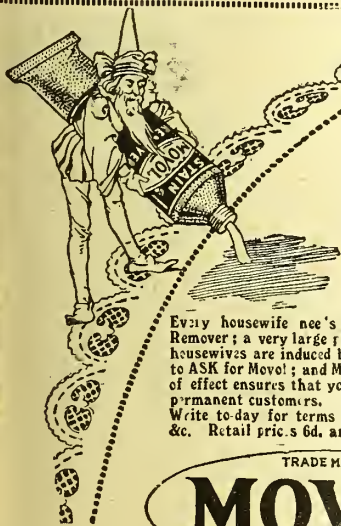
FOR
Perfume Bottles and Hair Washes.

METAL CAPS

FOR
Glass Jars and Toilet Preparations.



24 CITY ROAD, FINSBURY SQUARE, LONDON, E.C. 1



Let Movol
Magic
help your
Sales

Every housewife needs this marvellous Stain Remover; a very large proportion of the Nation's housewives are induced by the Movol advertisement to ASK for Movol; and Movol's absolute certainty of effect ensures that your Movol customers are permanent customers.
Write to-day for terms and special showcards, &c. Retail prices 6d. and 1s.



Stain Remover.

Removes Ironmold, Rust, Fruit and Ink Stains from Clothing, Marble, &c.

Wm. EDGE & SONS, Ltd., Bolton,

And at 25 Front Street, East Toronto;
and 15 Valentine St., New Bedford, Mass., U.S.A.

GROCERS' EXHIBITION, Agricultural Hall,
September 20-26,
EDGE'S STAND, ROW W, 158 & 159.

FLY GUM

For Fly Papers and Reels.

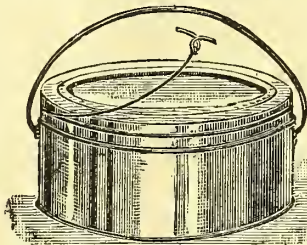
*Guaranteed to retain its stickiness
TWO OR MORE SEASONS.*

Prepared by
E. H. WRIGGLESWORTH,
Manufacturing Chemist - HULL.

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.

Manufacturers
for the
Chemical Trade.



**TIGHT SEAMING &
VARNISH BOTTLES
A SPECIALITY.**

*Patent Air Tight Slip-Lid Tins
for Export.*

Prompt Deliveries Assured.

G R

GOVERNMENT PROPERTY FOR SALE

Ministry of Munitions :
By Direction of the Disposal Board.

The following are a few selections:—

DRUGS

Traders are invited for: Caffeine 4,000 grammes ; Opii Pulv. 200 lbs. ; Eucaïne Hcl. 40 lbs. ; Phenacetinum 5,000 lbs. ; Hydrarg. Perchlorid. 7,500 lbs. ; Strychnine Hcl. 20 lbs.

TABLETS

Morphinæ Tartras 1,000,000 ; Quininae Bisulphas 5,000,000.

SURGICAL INSTRUMENTS

Forceps. Retractors. Scissors.
Probes. Scalpels. Syringes.

For further particulars apply: Controller, Medical Stores Section, Imperial House, Toothill Street, S.W. 1.

HEAVY CHEMICALS

Acetic Acid. Methylating Spirit.
Acetone Pure. Saltpetre (refined).
Ammonium Nitrate. Sodium Bicarb.
Chloroform
(Industrial). Sodium Sulphite.
Chloride of Lime. Sulphur Flowers.

Full details from Controller, Explosives and Chemicals Section, Disposals Board, Ministry of Munitions, Storeys Gate, Westminster, S.W. 1.

Note. For the detailed list of Surplus Government Property for sale apply at the nearest bookstall, or to a local newsagent (to whom a standing order should be given) for

“SURPLUS” price 3d.

The Official Organ of the Surplus Government Property, Disposal Board, Ministry of Munitions, Whitehall Place, London, S.W. 1.

DEVELOPING & PRINTING
AMATEURS' FILMS

CHEMISTS AND DRUGGISTS

WHO ARE AGENTS,
WHO DESIRE to BECOME
AGENTS, OR WHO CAN
NOT COPE WITH THEIR
ORDERS

are invited to

SEND THEIR WORK TO REPROGRAPHS

Proprietors . . . Newspaper Illustrations, Ltd.

Dept. C.D.,
161a STRAND, LONDON, W.C. 2.

Write for Price List.

Generous Commission.

ORDERS DELIVERED IN 3 DAYS.

ATTRACTIVE

APPEARANCE

USE
THE

DEMON SEALING MACHINE

THE QUICKEST, SIMPLEST & SUREST
METHOD OF PARCELLING.

*Ask for particulars and samples, or,
better still, our representative will
be pleased to call and demonstrate.*

GUMMED PAPERS LTD.

Regd. Offices:

VICTORIA MILLS
Narborough, nr. Leicester.





HIGH CLASS SURGICAL DRESSINGS

STOP

extravagance and increase production is the gist of the Prime Minister's message to the Country.

FOREIGN

goods will creep in again, with the inevitable result that British trade will be dwarfed unless active steps are taken to stop

DUMPING

You can do your part by refusing goods save those made by British firms and British labour.

SUPPORT YOUR COUNTRY

and give your order to

ROBERT BAILEY & SON,
SURGICAL DRESSING MANUFACTURERS,
MARRIOTT STREET MILLS, STOCKPORT.
CABLES UNDISPUTED, STOCKPORT. CODE A.B.C 5TH EDITION.

WARRICK BROTHERS, LIMITED

CHOCELLÆ.
PULVELLÆ.
FLEXOIDS.
FLEXETTES.
FIZZZLETS. (Suspended)
REFRESHLETS. (Suspended)
EXTRAITS AUX FLEURS.
ESSENTIAL OILS.
POMADÈS (FLORAL).
ROSE WATER.
SACHETS.
PERFUMES.
SYNTHOROSE.
CACHOUS.
FRAGRETS. NORETS.
PERLES.
PASTILLES.
LOZENGES.
ORIFORM LOZENGES.
WALMSLEY CLEANING
PADS.
CAPSULES.

NOSTRONES.
COMPRESSED TABLETS.
AMULETS.
POT POURRI (CINET'S).
JAPADUMS (CINET'S). (Suspended)
TOILET SOAPS.
CHAPIREAU'S CACHETS.
CINET'S GOODS.
CACHETS.
CACHET APPARATUS.
ZEPHYR BUTTONHOLES.
PERFUMETTES.
OTTOLETTES.
ZOMBS.
CHANTICLEER.
LUBRILAX.
THE "FLAG"
EAU DE COLOGNE.

Also Special Agents for
JELLOIDS.
IRON JELLOIDS.
DULCILAX.

6, Nile Street, City Road, London, N.1.

Telephone : LONDON WALL 2452 (2 lines).

Telegrams : "WARRICKERS, HOX. LONDON."

CORRESPONDENCE FROM OVER-SEAS SOLICITED.



A Weekly Journal of Pharmacy and of the Chemical
and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and recotation the leading journal, addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in Australia, New Zealand and South Africa.

SUBSCRIPTION RATES.

FIFTEEN SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 6d.; *Diary* 3s. 6d. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 15s., franco.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 15 ch., franco.

Terms for advertising may be obtained on application to the Publisher

Head Office: 42 CANNON STREET, LONDON, E.C. 4.

Telegrams: "Chemicus. Cannon, London." Telephone Central 3617 (three lines).

Branch Offices: MELBOURNE AND SYDNEY, AUSTRALIA.

CONTENTS: No. 38 (Series No. 2069), Vol. 91.

	PAGE		PAGE
Association Affairs	53	German Potash Salts	70
Births	54	Information Department	56
British Association	63	Insurance Act Dispensing	66
Business Changes	51	Irish News	47
Coming Events	56	Legal Reports	49
Correspondence:		London Salon	52
Letters	70	Marriages	54
Legal Queries	72	New Companies and Com-	
Miscellaneous Inquiries	72	pany News	52
Deaths	54	Observations and Reflections	57
Editorial Articles:		Organising the Drug-trade	66
Insurance		Personalities	52
Dispensing	58	Pharmaceutical Society of	
Overseas Trade Organisa-		Ireland	65
tion	59	Quinine as an Economic	
Death of Sir Peter Squire	60	Weapon	61
Sale of Malt Packets	60	Retrospect	72
Politics and Pharmacy	60	Scottish News	47
English News	46	Trade-marks	55
Experiences of the Great		Trade Notes	55
War	45	Trade Report	67
French News	48	Wills	55

Known, Admitted, and Approved Remedies.

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1920, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the "British Pharmacopœia," and the *Diary*, being published periodically, affords an opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, C. & D., 42 Cannon Street, London, E.C. 4

Experiences of the Great War.

Contributions to this section are invited.

XVI.—An Appreciation of Army Life.

HAVING BEEN DEMOBILISED for some five months, I feel I can now look back upon my Army career with some sense of detachment. My outstanding memories are certainly very pleasant, and it has taken me some time to repress the wish to return to that life. Coming home from the Far East, at the end of 1914, I enlisted in the Royal Army Medical Corps, and, after three months' training at Aldershot, was sailing eastward again as a fully fledged private—one of a party of reinforcements for Egypt. Gallipoli, we thought, was to be our final destination, but the authorities had decided on Cairo. There I performed various duties for a few months before being detailed for the hospital dispensary. I was soon promoted corporal, and, a few months later, sergeant. These promotions, I might add, were not obtained entirely on the strength of my civil qualification of pharmacist, but mainly because of my striving to be an efficient soldier. This I found was the surest way to success in the Army. A sergeant in the R.A.M.C. needs something more than pharmaceutical attainments to enable him to carry out his duties successfully—this might even be said of a private. As a sergeant-dispenser I found my pharmaceutical abilities much appreciated by the medical officers. Better relations and appreciation of each other's specialised knowledge could not have existed. This was all very nice, as was also the social life in the sergeants' mess, where I learned to appreciate the regular Army non-commissioned officer—generally, in the R.A.M.C., a well-read, intelligent man—but I had hankered, from the first, for the field and eventually got my chance. I was posted to a newly-formed field ambulance, and, after a short period of intensive training, we were sent up the line, taking part, a month or two afterwards, in the advance from Gaza. The life though rough was pleasant and, naturally, full of new experiences. Living so close to Nature men became more primitive, and a fine spirit of comradeship was everywhere evident. Nature herself was glorious on the hills and plains of Palestine, particularly in spring, when the whole earth seemed aglow with the colour of flowers innumerable. Then did I "kick" myself for having carried my pursuit of botany no farther than Bloomsbury Square. Less than a year of this life and we were sent back to the depôt at Kantara, where the ambulance ceased to exist. The corporals and men were transferred to the infantry, while the sergeants and higher ranks were retained for transfer to Indian units. After a long period of waiting I was drafted with another sergeant-dispenser to an Indian Cavalry Ambulance then in the Jordan valley, where we found our new unit, with a hospital, nicely sheltered in a vineyard. Duties were even more varied than with a British ambulance, but the life generally was not so pleasant. We were in the rear, resting, when we got the joyful news that we should not return to the Jordan, but were to advance along the coast. This was the beginning of the final push which ended for us at Aleppo. The wounded we passed through, on this move, were mostly prisoners, but, by the time we had reached Damascus, our own sick were coming in at an alarming rate, and there we were fairly crowded out. Influenza, malaria, and the rapidity of the advance proved rather too much for the medical services, but the standing luck of the British Army eventually brought us through. Coming back to civil life I find that what little one has lost in technical subjects has been much more than balanced by the increased general knowledge and confidence gained by unusual and unexpected experiences.

SATISFIED. (69/19.)

PERPETUAL MOTION.—A customer in a British pharmacy explained that he had lately purchased elsewhere what he supposed to be prunella balls, but, although he kept on sucking them, they would not dissolve. It turned out that they were naphthalene balls. The customer's further comments are not recorded.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

The Profiteering Act.

An Order has been issued by the Board of Trade giving a list of scheduled goods the prices of which may be investigated by the Profiteering Committees to be set up by local authorities. Schedule 1 includes wearing apparel, household utensils, mending material, furniture, and building material. Schedule 2, which includes some articles which chemists sell, is as follows:

The following articles of food (included in this schedule in agreement with the Food Controller): Fresh fruit (except apples), nuts, canned and bottled fruits, preserved fruit (except dried fruits), and candied peel, fresh vegetables (except onions), dried and preserved vegetables, biscuits, cakes, and confectionery, table jellies, canned and potted meat, soups (solidified and liquid), and meat essences, fish, whether fresh, smoked, cured, or frozen (except brill, halibut, mackerel, salmon, soles, slips, trout, turbot, and fresh herrings), shell fish, canned fish (except canned salmon), dried and liquid eggs, egg substitute, and custard powder, baking powder, milk powder, pulses (such as beans, peas, and lentils), honey, spices, flavourings and essences, coffee, breakfast cereals, farinaceous foods (except rice), patent foods for human use, barley and barley products, oats and oat products, rye, maize products, condiments, sauces, and pickles, salt, vinegar, and salad oils, and ready cooked or prepared food.

Rat Destruction.

The Board of Agriculture is organising a campaign for the destruction of rats. It is suggested that the week commencing October 20 shall be the time for an organised effort to destroy as many rats as possible before the pests take up winter quarters. This is an opportunity for chemists to instruct local committees as to the uses of rat poisons and rat virus, and to lay in stocks in anticipation of the demand which should be created by the campaign.

Contracts.

The following tenders have been accepted by the bodies named:

Colchester Guardians.—Mr. J. F. Marljar, chemist and druggist, drugs, etc.

Weymouth Guardians.—Mr. M. T. Evans, chemist and druggist, dressings.

Birmingham.

"Germanicide" is the name of the stuff with which a Birmingham housewife is said to have rid her rooms of cockroaches.

With the beginning of the evening science classes, the pharmacist gets applications for chemicals from youthful experimenters who talk glibly of cyanide and the like—but are politely turned down with the remark, "Sorry, out of stock."

It is reported that about sixty applications have been made for "places" at the Technical School day pharmaceutical classes. The assistant has been appointed, but the teacher's place remains unfilled. It is feared that the salary offered has not induced the right men to nibble.

The telephone is becoming a nuisance in business houses, owing to the trivial calls which are made. Several firms of importance will not let their number be publicly known. The trunk-lines were so much occupied one day this week that it was not possible to communicate with Tipton (less than twelve miles away) in less than an hour!

The James Watt centenary is being fittingly celebrated here this week. On September 16 the Lord Mayor of Birmingham presided at the opening meeting, at which a graceful tribute from the University of Trondheim (Norway) was read. On September 17 a striking lecture on the principles of energy was delivered by Sir Oliver Lodge, who said that molecular energy was beginning to show signs of exhaustion, as, for instance, such energy as that supplied by coal, and it was for the scientific man to pursue his studies in other directions. The great source of energy in the future, he thought, would be atomic energy. Of this the supply was inexhaustible, but at present it was, in a sense, inaccessible.

Bristol.

The bottle shortage is acute. Insurance prescriptions are in some instances declined unless the patient sends his own containers.

"Rep. must." figures more frequently on Insurance scripts here than in some other towns, and continues to absorb much of the dispensers' time.

The marked fall in the temperature here is affecting the nature of preparations hitherto in demand. Embrocations, cough-syrups, pastilles and lozenges are daily requests; and the "rush" on fly-papers and reels has considerably lessened. Vanishing-creams continue to sell well; dental specialties (which the war training made essential) appear to be now much in favour with all classes. Sloan's Liniment is almost unobtainable; and numbers of juvenile sufferers must miss their usual ration of Woodward's gripe-water.

Liverpool.

Rubber water-bottles are forming window-displays in the district.

The "bacon scandal" is subsiding, after having served as an object-lesson in red tape—and odours.

A good demand for rat-destructors has led to the reappearance of approved proprietaries in shop-windows.

"If you have any doubts ask our advice" and "Everything sold here is of the best" form two effective cards in a down-town chemist's windows.

The Sheffield scale for assistants has not yet received any formal consideration in this district. Assistants are somewhat rare birds locally, and (it is said) prone to buy branches for themselves.

Tooth-brushes are once more plentiful, and are selling freely. A lady customer examined the whole stock of a local pharmacy one day this week, and then asked the patient assistant to choose for her.

"Business is again brisk, but not quite so brisk as before the break in the weather; and the Atlantic passenger season is drawing to a close." So runs the latest bulletin of a leading member of the Liverpool retail trade.

Gas, electric light, and rates are all leaping upwards. This city and Birkenhead are hard hit by the additional burden of riot-damages, which will cost 2s. to 3s. in the £ on the rates. Commercial enterprise, nevertheless, is forging ahead.

The "Diamond Jubilee" number of the *C. & D.* has been read with interest as a sketch of pharmaceutical history comprising some hard-fought battles. The letter by "Dilemma" on "Profiteering Tribunals" (p. 94) has struck a timely note.

Several retailers have had to decline, regretfully, the invitation to join the local committee for next year's B.P.C. Nevertheless, support will be forthcoming in due course, and a small executive may be relied upon to maintain the Liverpool reputation for organisation and hospitality.

Nottingham.

A new magazine has just been started by Boots, Ltd., for their warehouse and office employés. It is called "The Beacon," and the first number contains a foreword by Sir Jesse Boot, Bart.

Some of the local applicants desiring to participate in the Government scheme for training chemists' assistants whose career was interrupted by the war have at length been informed that their application has been granted, but others are still in the dark. In addition to the maintenance grant, the Government pays the fees (about 40l.). The University College authorities are now on the lookout for a professor to teach pharmacy and materia medica. Provision is made for eighty students—much less than the number who applied.

Miscellaneous.

SUGAR COMMISSION'S ADDRESS.—The Royal Commission on the Sugar Supply is removing its offices from 14 Great Smith Street, Westminster, S.W. 1, to 3 Grosvenor Gardens, London, S.W. 1.

STATE FARINA MILLS.—The Board of Agriculture has taken control of the British Farina Mills, which manufacture potato-flour. It is hoped soon to increase the output of the three existing mills to about 20,000 tons a year.

EMPLOYING DISABLED MEN.—An appeal has been made to employers by means of a Royal Proclamation urging them to assist in giving employment to as many disabled sailors and soldiers as possible. The official scheme suggests that 5 per. cent. of the staff of employers should be disabled men.

JOINT WAR COMMITTEE'S FUND.—Grants amounting to 956,000*l.* are to be made forthwith to hospitals and nursing institutions in England and Wales from the surplus funds of the Joint War Committee of the British Red Cross Society and the Order of St. John. A block grant of 125,000*l.* to the London hospitals will, it is hoped, be administered by the King Edward's Hospital Fund Committee. The remainder of the money is being paid to three trustees in each county who are expected to submit an audited account of their administration on September 1, 1920.

SALE OF FOOD AND DRUGS ACTS.—At Manchester County Police Court, recently, G. H. France, wholesale druggist, Stockton Street, Moss Side, was fined 5*l.*, with 4*l.* costs, for selling to a retail grocer at Old Trafford Epsom salts which, on analysis, were found to contain 424 parts of arsenic per million. An analyst stated that people taking a daily dose of these salts might suffer injurious effects from the arsenic. Defendant had given a written warranty. He told the Bench that he bought the salts from Liverpool manufacturers with whom his firm had dealt for about fifty years. He had been satisfied with a verbal warranty.

CATTLE CAKES AND MEALS.—The Food Controller has issued an order requiring all purchases, sales, and dealings in cattle cakes and meals made from copra, cotton-seed, ground-nuts, linseed, palm kernels, rape-seed, rice bran, rice meal, sesame-seed, or soya bean, after September 15, to be under licence, except dealings in respect of contracts entered into before the date of the order, purchases by or sales to any one person in any calendar month not exceeding in the aggregate four tons of all kinds of cakes and meals or purchases by persons for consumption by their own cattle. All manufacturers will require to be licensed, unless their total manufacture is less than 25 tons per month. It is proposed to issue five classes of licences—namely, manufacturers' licences, importers' licences, wholesale dealers' licences, brokers' licences, and distributing dealers' licences. Manufacturers' licences will be issued by the Oils and Fats Branch of the Ministry of Food; importers', wholesale dealers', and brokers' licences by the National Cattle Food Trade Association, of 19 Mark Lane, London, E.C., and its affiliated associations; and distributing dealers' licences by the National Association of Corn and Agricultural Merchants, of 60 Mark Lane, London, E.C., and their provincial area committees, to whom all applications should be made in the first instance.

Irish News.

Brevities.

Mr. James Ryan, chemist's assistant, Dublin, sustained severe injuries to his head in a cycling accident at Glenealy, co. Wicklow, recently, as a result of his brakes refusing to act.

A complimentary dinner to Mr. W. J. Busby, managing director of Harmur's, Ltd., on the occasion of his forthcoming departure to Canada was held on September 18 at Thompson's Restaurant, Belfast.

The Superintendent of the local Fire Brigade reported to the meeting of the Newry Urban Council on September 2 that the estimated value of the property at risk by the recent fire on the premises of S. Connor & Sons, chemists, was 20,865*l.* A letter was read from Mr. Connor expressing appreciation of the services rendered by the Brigade on the occasion.

At Antrim Board of Guardians recently, Mr. R. F. Blake, analyst, Belfast, applied for an increase of his

present salary of 20*l.* per annum, pointing out that he had not applied during the war. The Clerk said he had analysed twenty-one samples from each of seven dispensaries and the infirmary during each quarter. It was decided to consider the matter at the next meeting.

Belfast.

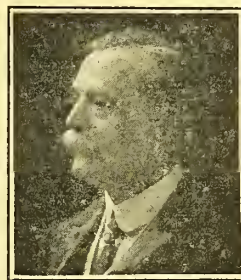
Mr. A. Morris, Ph.C., 130 Ravenhill Road, Belfast, while holidaying at Scarborough, contracted septic poisoning in his foot, and is confined to a nursing home.

At Belfast Recorder's Court, on September 12, Simon McGeown and Denis Couser were charged with breaking into the premises of Elliott, Thompson & Blair, wholesale druggists, 12 Corporation Street, and stealing wine and other articles. They pleaded "Guilty." Couser was sent to gaol for two years with hard labour, while McGeown was sentenced to one year's imprisonment with hard labour.

Dental Society of Ireland.

An interesting function was held in the Chemists' and Druggists' Rooms, Waring Street, Belfast, on September 10, by the members of the Dental Society of Ireland,

who assembled to pay a tribute to their secretary, Mr. J. D. Carse. Mr. F. T. Smith, J.P. (President), occupied the chair, and spoke of the great services rendered to the Society by Mr. Carse, who had been secretary since its inception. He then presented Mr. Carse with a substantial cheque from the Committee and members. The Chairman's remarks were supported by Messrs. Robb, Roberts (ex-President), Guthrie, Mitchell (Treasurer), Moffet, Boyle, and Carson.



MR. J. D. CARSE.

Scottish News.

Brevities.

Owing to the abnormal prices ruling for santolin, the prescribing of this drug is decreasing.

Mr. A. Fraser, assistant with Mr. Hall, chemist, Stonehaven, was killed by a train while on the line near Stonehaven on August 11.

Provost Raffan, chemist and druggist, Stirling, has become President-elect of the Incorporated Sanitary Association of Scotland.

Scottish beekeepers are now bringing in their hives from the moors. The season's yield promises to be good, as the weather has been ideal.

"Is it not time," writes a correspondent of the "Scotsman," for the Minister of Health to see that panel chemists' places of business are kept open to a later hour than at present?"

In order to make the Venereal Disease Act more easily observed, it is suggested that it should be made an offence for anyone to ask for advice from any but a duly qualified medical practitioner.

The University Court of St. Andrews have appointed Mr. John Scott Walker Boyle, M.A., B.Sc., as lecturer and assistant in chemistry in University College, Dundee, in succession to Dr. J. K. Wood.

Reports from chemists in Elgin, Forres, Nairn, Inverness, and the North go to show that this summer's business has been exceedingly good, visitors having been more numerous this season than for many years.

There is no apparent alleviation of the shortage of supplies; the average invoice shows blanks for about 50 per cent. of the order. Some firms delete the blanks from the invoice, but the unpacking of the goods reveals the shortage none the less.

It is stated that malt extract in glass containers will soon be unobtainable, bottles having recently risen further. The upward tendency is attributed in the main to the increasing cost of running businesses, coal prices, and the rate of American exchange.

The wine merchant next door to a pharmacy in a Scottish town was puzzled the other day by an order for a bottle of "Forty-five." This is a vintage he does not stock; but the name of a well-known proprietary was eventually found to be the correct solution.

As was pointed out in these columns some weeks ago, there is a general upward tendency in the prices of proprietaries. Nor are the present figures likely to be the highest; it is even suggested that 3s. and 5s. 6d. will very soon be the popular prices for the old 1s. 3d. and 3s. lines.

A correspondent has collated the business hours of three Scottish towns of different sizes within a small radius. In each of these towns the closing-hours, Sunday hours, and hours observed on public holidays differ, with the probable result of sending customers from one area into another. The moral is obvious.

The quotation from Mr. Martin Meldrum's letter given in last week's *C. & D.* (p. 67) has been received with much satisfaction in Scottish pharmaceutical circles. Not only in selling methylated spirit, but also in many other trade matters, chemists observe "the moral law" more closely than, perhaps, the majority of people.

The final tie in the single-handed bowling competition of the Glasgow Pharmacy Athletic Club was played on September 16. The trophy was a fine pair of silver-mounted ram's horns, presented by Mr. William Greig (New Apothecaries' Hall, Glassford Street), and Mr. Horace G. Gray won, from Mr. David Moir, by 21 shots to 18.

"The warning given in the *C. & D.* (August 30, p. 70)," writes a correspondent, "concerning the collection of evidence of unqualified management is timely. In Scotland the policy of leaving chemists' businesses in the care of unqualified persons is all too prevalent. It is impossible for the Resident Secretary to know of all the cases, and it is the duty of all qualified persons to protect their rights."

At a sanitary congress held at Perth recently, a speaker suggested that, with regard to house disinfection, present methods should be largely scrapped, and in their place the rooms to be disinfected should be entirely emptied and well aired, then scrubbed, washed down and cleaned, and the contents replaced after having been washed with soap and water or disinfected by steam. The use of chemical disinfectants, he added, should be reduced to a minimum. A subsequent speaker pointed out that in certain cases specific remedies and temperatures were necessary for killing vermin, and deprecated the idea that all disinfection was unnecessary.

Edinburgh.

The death is announced of Mr. John Riddoch, at one time chief veterinary inspector to the Edinburgh Corporation, aged seventy-one. Mr. Riddoch was an occasional contributor of papers to scientific societies.

The Edinburgh Pharmacy Golf Club have just brought a successful season to a close. The final of the hole-and-hole competition was contested between two members of Boots, Ltd.'s staff—Mr. J. Bateman (1 hole) and Mr. D. J. Davidson (plus 1 hole), the latter being successful by 2 and 1. In the foursome competition for the "T. & H. Smith" shield Messrs. D. J. Davidson and J. Davidson, of the same company, proved the winners. This is the third time Mr. D. J. Davidson has been a shield-winner, and the second time he has scored the double event.

Fife.

The public supply of water at Lochgelly is cut off for fourteen hours daily; and a business man at Cowdenbeath is said to have been obliged, lately, to wash in lemonade.

Dr. G. C. Anderson, Denbeath, Methil, who is well known in connection with National Insurance matters in Fife, has been appointed assistant-secretary to the British Medical Association.

French News.

(From the "C. & D." Paris Correspondent.)

MM. HUERRE AND DAMIENS have been elected members of the Paris Society of Pharmacy.

PHARMACEUTICAL "DOG-LATIN," Dr. Henri Martin points out, has its useful side, and its possibilities might be still further extended. If, he says, the compilers of the Codex object to insert "trade-mark" names in the official volume, why not obviate the difficulty by "Latinising" the universally familiar appellation? Why should not heroin appear as heroinum instead of diacetylmorphinum chlorhydricum, and so on?

NAVAL PHARMACISTS.—The question of increasing the number of French naval surgeons and pharmacists has been settled by the passing of an Act. The pharmaceutical staff of the French Navy is now to be officially styled *Pharmaciens-chimistes*, and to be graded as follows:

- One second-class general pharmacist-chemist.
- Three first-class chief pharmacist-chemists.
- Five second-class chief pharmacist-chemists.
- Nine principal pharmacist-chemists.
- Twenty first-class pharmacist-chemists.
- Eleven second-class pharmacist-chemists, and third class; "varying according to the Service's needs."

DISHONOURING THE PROFESSION.—A pharmacist was recently condemned for selling ordinary milk (costing 60 centimes a litre) at 2 fr. 50 c. per litre as "Lactarium linas," and described as "chemically and bacteriologically pure." The vendor had also advertised himself to be a member of the Seine Pharmaceutical Association. That body therefore intervened, seeking damages for "moral prejudice" to the trade. The Court found that "Linax had thrown discredit on pharmacy and had created a feeling of prejudice against the general interests of this profession, represented by the Seine Association, which the Court estimated at 500 frs."

FRENCH INDO-CHINA has a new pharmacy decree which states that everyone keeping open shop must be at least twenty-five years of age and qualified, possessing either the French diploma or the certificates issued by local juries prior to December 1, 1913. The sale of medicaments figuring in the native Pharmacopœia will be regulated by a decree of the Governor-General on special lines. The conditions as to ownership, etc., are on the usual French lines. The "widow's clause" provides that the manager who is employed by the widow to run the pharmacy for one year after her husband's decease must be "presented" to the Governor-General for approval; must be a qualified man (not owning a pharmacy elsewhere); or an assistant, over twenty-two, with four years' experience and of "recognised morality and capacity." Should such an assistant be approved, the Governor will, nevertheless, appoint a qualified man to supervise, who will be "personally responsible for the manager's errors." When the year has expired, the pharmacy will be closed unless it has been purchased by a qualified man; an extra year may be granted in exceptional cases, if the local authorities and the Inspector-General of Sanitary Services agree that the closing of the pharmacy would cause danger to the health of the surrounding population. The sale of poisons is reserved to pharmacists, except in the case of the native medicaments. Pharmacists will also be the sole vendors of special products of a remedial nature (patents), sterilised surgical dressings, purgative and medicinal mineral waters, serums, and vaccines. But these two last-mentioned articles may also be sold by laboratories duly authorised to prepare them. The concurrent practice of medicine and pharmacy is prohibited, but doctors and "vets." having no pharmacy within 10 kilomètres may supply medicaments to clients. Provision is made for pharmacy inspection. The illegal practice of pharmacy renders the offender liable to a fine of 500 frs., with or without "the immediate closing of the pharmacy." This latter clause is not necessarily frustrated by appeal to a higher court. Some of these points have aroused favourable comment among pharmacists impatiently awaiting the revision of pharmaceutical legislation in France.

Legal Reports.

Customs Law Consolidation Act 1876.

IMPORTATION OF PYROGALLOL.

In the Vacation Court, London, on September 17, Mr. Justice Greer had before him an *ex parte* application in the matter of *Brown v. Buckley*.

Mr. R. A. Wright, K.C., asked for leave to serve notice of motion for September 24 with the writ. The motion, he said, was of some importance. The plaintiffs carried on business as chemical manufacturers at Manchester, and there was now lying at the Port of Manchester a quantity of pyrogallallic acid, which was being seized by the Collector of Customs. The plaintiffs' position was that that seizure was entirely unjustified in law, while the defendant said that he was acting under a proclamation.

His Lordship: This is obviously a case where it is necessary that there should be an early trial.

Mr. Wright said the point was simply this: The Collector of Customs was acting under a proclamation under section 43 of the Customs Law Consolidation Act, 1876, by which the importation of certain articles, such as gunpowder, etc., may be prohibited by proclamation or Order in Council. The plaintiffs contended that the words of this Act did not include pyrogallallic acid, which was an ordinary article of commerce.

His lordship gave leave to serve notice of motion with the writ for September 24.

Defence of the Realm Act.

THE SUPPLY OF COCAINE.

At West Hartlepool Police Court, on September 12, Mr. Thomas Clarkson, J.P., chemist and druggist, was charged under the Defence of the Realm Act for a breach of the Cocaine and Opium Regulation in supplying cocaine to an unauthorised person.

Mr. F. Mayson prosecuted, and, in opening the case, said they must bear in mind the appalling abuses of the drug that had been recently revealed. Cocaine is a very deadly drug if used improperly, and the regulations made under the Defence of the Realm Act were clearly intended to prevent any unauthorised persons obtaining physical possession of the drug. The regulations provided that, unless the drug were supplied to a doctor, dentist, or other authorised person, it must not be supplied except in accordance with the written prescription of a duly qualified medical practitioner, properly dated and signed. The offence in this case was the supplying of the drug to a young woman named Ethel Jackson, who was not an authorised person.

Dr. W. A. Gordon Russell, Wingate, the first witness called, stated that in the early part of August he received a letter from Mr. Clarkson, marked "Private," asking for payment of an account. So far as he knew he had no account with Mr. Clarkson, and accordingly wrote for particulars, receiving in reply a detailed account amounting to 18l. 15s. for cocaine and other narcotic drugs, and a letter in which Mr. Clarkson stated that accounts marked "Private" had been addressed to him periodically. Witness handed the account and the letter to the Superintendent of Police at Castle Eden. Dr. Russell further stated that his wife had been addicted to the drug habit. He first found this out about two years ago, and for the past two years he had been trying to break her of the habit. Until he received Mr. Clarkson's account he could not find out where she had been getting the drug. He handed Mr. Clarkson's account to the Superintendent of Police because he felt that if the chemist were supplying drugs in an unauthorised manner he should be punished. From November 1918 to June 1919, 1,140 grains appeared to have been supplied—this is an enormous quantity. In the ordinary course of his practice he did not use 10 grains of cocaine in ten years. Its only legitimate use, he added, was as a local anæsthetic in the form of a solution or an ointment. There was an entry in the account for March 4 for 2 drams. This was equivalent to 120 grains,

which is a tremendous quantity. The price charged was 1l. 5s., which was excessive. The price fixed by the Durham Insurance Committee was 7s. a dram, and during the past six months the drug had never been sold at a price exceeding 10s. a dram. He had on two occasions taken packets of cocaine from his wife; they were not labelled "Poison." In cross-examination, Dr. Russell said he had not paid any of Mr. Clarkson's previous accounts, nor had he ever before received a letter marked "Private" from any drug dealer. His wife had been taken away to a home for treatment when the letter arrived. He had never been in Mr. Clarkson's shop within the past five years. The orders purporting to bear his signature were in his wife's handwriting; any chemist would know they were not ordered by a doctor. He had found another chemist supplying her as well as Mr. Clarkson.

Ethel Jackson, a nursemaid in Mrs. Russell's employ, said she took sealed envelopes to Mr. Clarkson and Mrs. Russell waited outside for the reply. The packets which were given her by the chemist she took to Mrs. Russell. On one occasion she was asked to sign the poison register, and asked to add "p.p. Dr. Gordon Russell."

Inspector Hunter, who visited defendant's shop, examined the poison register, and was shown a number of pieces of paper upon which were orders for cocaine. Mr. Clarkson told him that he refused to supply Mrs. Russell any more, and that Dr. Russell's dispenser came and he made her sign the register.

Mr. W. R. Harrison, for the defence, said this was a very unfortunate case. He thought it was obvious that whatever might be the verdict of the magistrates about the transaction, Mrs. Russell had not cared what she did in her efforts to obtain the drug. Dealing with the regulations, Mr. Harrison spoke of the persons who were described in the Regulation as authorised, and he argued that the drug might be supplied "to or for" any such authorised person. It could hardly be expected, if a doctor required certain of those drugs, that he must go to the chemist's himself to get them. He would merely send a messenger, or probably telephone. He (Mr. Harrison) had been in communication with the Chemists' Defence Association, and they regarded the words "to or for" as including the supply of the drug through any reasonable agent. The point had never been decided in any court because the thing had never arisen.

Mr. Clarkson then gave evidence. He said it was his practice to send out accounts to medical men quarterly. He had for some time past sent out, in this way, accounts addressed to Dr. Russell. In regard to the two cheques he had received in payment of such accounts, he took it for granted that they were from Dr. Russell himself. He did not notice the signature, but simply endorsed them and sent them to the bank. Mrs. Russell had several times been in his shop wearing a nurse's grey uniform, and he had understood from what she herself had told him that she was in the habit of helping her husband in dispensing and that she had also done midwifery. On one occasion, in the course of conversation, he remarked about the large quantity of cocaine the doctor was using, and she replied, "He is doing all his minor operations with cocaine and morphia, and also doing his extractions. He has a very large practice." Defendant further stated that his dealings in cocaine were not large—in fact, they were comparatively very small. In the two years 1918-19 he only had five ounces, and one ounce of that was still left at the present time. It has never been held that a doctor should come personally for cocaine. It was no part of his duty to criticise a doctor's orders. Every transaction was entered in the cocaine register.

Mr. Aitcheson, assistant to Mr. Clarkson, also gave evidence. He asked the girl Jackson to sign the poison register, and she added "p.p. Dr. Russell" on her own initiative.

Mr. Mayson, in summing up, said the doctor should have gone for or ordered the cocaine personally.

The two magistrates retired, and on their return the Chairman said they were unable to agree. The case was adjourned. A further charge of failing to enter in the

cocaine register particulars concerning the sale of cocaine was also adjourned.

On September 17 the case came up again, and evidence was given that defendant was quite positive that he was supplying the cocaine for the doctor's use as a medical practitioner, and Mr. E. Abinger, counsel for the defence, urged that it was clear that Mr. Clarkson had been deceived by Mrs. Russell.

The Bench unanimously dismissed the case, but expressed the opinion that Mr. Clarkson ought to have exercised more care.

Finance Act 1910 and Spirits Act 1880.

ILLICIT TRAFFIC IN SPIRITS.

At Bow Street Police Court, London, on September 12, before Mr. Garrett, Thomas James Fox, chemist and druggist, 254 Commercial Road, Landport, Portsmouth, was summoned by Percy Baldwin Renshaw, an officer of Customs and Excise, for dealing wholesale in certain spirits without a licence under the Finance Act 1910, on June 2, 9, 26, and 27; and for removing to 81 High Holborn, without a permit as required by the Spirits Act, 1880, 60 gallons of spirits on June 2, 50 gallons on June 19, 30 gallons on June 26, and 50 gallons on June 27. John William Chamberlain, of St. John's Road, Isleworth, was at the same time summoned for buying spirits from Fox, for dealing wholesale in spirits without a licence, and for delivering certain spirits at 81 High Holborn without a permit; and Frank Edward Emsley Cheaney, of 81 High Holborn, was summoned for buying spirits from Chamberlain (he not having authority to sell the same), for receiving the said spirits without a permit, and for "sending out" spirits without a permit.

As all the summonses were stated to refer to the same series of transactions, it was decided that they should be heard together.

Mr. Frank Dart, solicitor, conducted the case for the Customs and Excise authorities; Mr. Percy St. Gerrans appeared for Fox, Mr. Brandreth for Chamberlain, and Sir Richard Muir for Cheaney.

In opening the case, Mr. Dart said that although these proceedings were not instituted under the Immature Spirits Act, 1915, it was necessary to make reference to that statute, because it had an important bearing on the case. Under Section 1 it was enacted that spirits must not be delivered unless they had been warehoused for three years, but there was this important exception, viz., that the main provision should not interfere with the supply of immature spirits or rectified spirits of wine for use in the making up of medicines. The object of the Act was, of course, to prevent spirits being sold that were prejudicial to health. Coming to the facts connected with this prosecution, Mr. Dart stated that Mr. Fox was a chemist carrying on business at Portsmouth. As such, he would be entitled to receive a reasonable quantity of spirits of wine for the purpose of making up medicines. According to his own account, he had never used more than half a gallon of spirits of wine a month in his business.—(Mr. Fox: A week—not a month.)—Mr. Chamberlain formerly resided at Isleworth, and had been the licensee of a public-house at Walton-on-Thames, but had held no licence since 1917. Mr. Cheaney was a public-house broker and valuer at High Holborn, and also owned the business, a spirit-dealing business, at Hart Street, Mark Lane, and a public-house in Fenchurch Street, though the licences of these two concerns were nominally held for him by his father. Owing to the general shortage of spirits in recent times, Cheaney wanted to get an additional supply; he knew Chamberlain, and Chamberlain knew Fox. The latter was able to get large quantities of spirits of wine from two large dealers—Burgoyne, Burbidges & Co., Ltd., High Street, East Ham, and Phillips & Co., of Clerkenwell Road—and he did get some hundreds of gallons from them. None of it, however, went to his place of business at Portsmouth, but was mostly sold by him to Chamberlain, who re-sold it to Cheaney, at whose premises at High Holborn it was delivered. In one instance Fox sold direct to Cheaney without the intervention of Chamberlain. As to the cir-

cumstances under which the alleged offences were committed, Mr. Dart said that, in consequence of information received, an officer of Excise kept observation outside the premises of Burgoyne, Burbidges & Co., Ltd., East Ham, on a certain day in June, and saw a taxi-cab drive up, from which emerged the defendant Fox, who took some empty drums into the warehouse, afterwards came out with some full drums, and drove away with them. Similar incidents were observed on another day, when Fox was accompanied by Chamberlain, and having brought away ten drums, each containing five gallons, they were seen to take them to 81 High Holborn. On June 28 Mr. Hall and other officers of Excise went to that address saw Cheaney, and told him they understood ten drums, containing 50 gallons of spirits of wine, had been delivered there the day before. Cheaney replied, "No; they were simply left here for a time by Mr. Chamberlain for safety and convenience." Mr. Hall said, "Are they here now?" Cheaney replied, "No; they were taken away at three o'clock yesterday." He admitted to Mr. Hall he had been receiving a supply from Chamberlain once a week. Mr. Hall noticed a door marked "Private," and insisted on it being opened. This was done, and there he found ten drums of spirits 58 overproof, which Cheaney ultimately admitted to be those that had been delivered the previous day; some other drums containing spirits of similar strength were also found. The officers seized all these spirits because Cheaney admitted they had been delivered without a permit. They then went to Cheaney's other place of business in Hart Street, where more spirits of wine, admittedly purchased from Chamberlain, were found and seized. Mr. Hall was told by Cheaney that they mixed ten portions of "white spirit" with forty portions of whisky or brandy, and it was sold to the public 30° under proof, and that they made a profit of 15s. per gallon, but Mr. Hall pointed out that the latter figure should be 30s. Subsequently Mr. Hall went to Portsmouth and saw Fox in his shop. He told him he had been seen to remove a large quantity of spirits from Burgoyne, Burbidges' and Phillips & Co.'s, and that the same had been seized because delivered without a permit. Fox then admitted that, although he had a permit to remove the spirit to Portsmouth, he had no permit to remove it to High Holborn. Mr. Hall told Fox he had examined Mr. Cheaney's cheque-book, which showed that he had paid 390l. to him (Fox) direct and some thousands of pounds to Chamberlain. Fox admitted receiving the 390l. from Cheaney, and added that he himself bought the spirit at 5l. a gallon, and sold it at 6l. to Chamberlain, who re-sold it to Cheaney at 7l. Every consignment except the one for 390l. had gone through Chamberlain. He added, "We made a good deal of money out of it, but Cheaney has made more than both of us." Altogether it appeared that some 690 gallons had been bought by Chamberlain from Fox. The latter admitted he had made 1,200l. by the deal, and said he had yielded to the temptation as he had been in financial difficulties, owing 600l. trade debts besides private liabilities. When Chamberlain was interviewed upon the subject by Mr. Hall he explained that, in regard to the earlier deals, he paid Fox 6l. 10s. a gallon and re-sold to Cheaney at 7l. Then Cheaney had a deal direct with Fox by which he (Chamberlain) was deprived of his commission, and then, to make up for that, in his subsequent deals he paid Fox only 6l. a gallon, still getting 7l. from Cheaney. The cheques given by Cheaney to Chamberlain and Fox totalled altogether 6,168l., but it was claimed that about 1,400l. of that amount was in respect of considerations other than the purchases of spirits. In conclusion, Mr. Dart mentioned that Fox had really rendered himself liable to penalties amounting to 2,400l., Chamberlain to penalties amounting to 1,600l., and Cheaney to penalties amounting to 3,200l. This, however, was not a case in which he would be justified in asking the magistrate to impose anything like the full penalties, though the Commissioners of Customs and Excise instructed him to say that they regarded the case as a serious one.

Mr. St. Gerrans said his client Mr. Fox had pleaded guilty, but he wished to say a few words on the question of the penalties that should be imposed. He would

emphasise the fact that there had been no defrauding of the Revenue. Upon the whole of the spirits dealt with the full duty had been paid. It could not be said that the Revenue had suffered in any way except that a licence to deal wholesale had not been taken out. Mr. Fox realised that what he had done in these transactions was extremely foolish. He had carried on business at Portsmouth for some time, and, as the magistrate had heard, he had been more or less in financial difficulties. He appeared to have known Chamberlain previously, and when the latter came to Portsmouth and asked him whether he could obtain any spirits he knew, of course, that in his capacity, as chemist he could obtain them, and there would in fact have been no offence if the spirits had been sent to the place where it was permitted they could go. The offence here was under the Finance Act 1910 and under the Spirits Act 1880 which required that a wholesale dealer's licence should be held to make lawful such transactions as were disclosed in this case. These things would not have been done if Chamberlain had not pointed out the way to Fox. He would not say that this exonerated Fox for his participation in the offence, but it really appeared that the great temptation had come from Chamberlain, who, being in the public-house trade, knew the law; he also knew that spirit, whether mature or immature, was very scarce and would command very high prices. That induced him to put the temptation before Fox, a man who had never previously committed any offence, actual or technical, in regard to this or any other matter. He unfortunately yielded to Chamberlain's solicitations, and the result was that these illicit transactions had been carried out as described by Mr. Dart. His client was not the person who thought out and originated these contraventions of the two statutes. This was very different from the many cases brought before the courts for the purpose of protecting the public Revenue. Here, on the other hand, the Revenue had actually received very large sums by way of duty, and although it might be urged that there were other considerations to be taken into account in regard to the sale of immature spirits, that was not a matter that the Court had to deal with in the present instance. He submitted that the offences were in the main of a technical character and did not call for heavy penalties. There had been a temporary slide from rectitude so far as Mr. Fox was concerned, but there was no suggestion of anything more serious against him. When Mr. Hall visited him on the subject he made a frank and full statement and rendered the officer every assistance in conducting his investigations.

Mr. Brandreth, for the defendant Chamberlain, said there was no evidence that his client had led Fox into this trouble. Chamberlain's story was the very reverse—it was that he was led to believe all through that Fox had a permit entitling him to do what he did. He asked the Court to disregard Mr. St. Gerrans' suggestions in that respect. The profit made out of the transactions by Chamberlain was much less than that made by Fox. Chamberlain was not the prime mover in the matter; he was not the original buyer or seller.

Chamberlain then gave evidence on oath. He said the affair came about by Fox giving him a sample in a bottle and asking him if he could sell any of it in London. He took the sample to Cheaney and asked him if he could do with it, as he had a friend in Portsmouth who could sell a lot of it. Cheaney agreed to take it on. He (Chamberlain) paid Fox 6*l.* 10*s.* a gallon for it and got 7*l.* a gallon from Cheaney. Fox then sold Cheaney 60 gallons on his own, thus cutting him out of his 10*s.* profit. After that he (Chamberlain) only paid Fox 6*l.* a gallon. Eighty gallons that he had paid Fox for were seized by the Customs officer, and the net result of the whole of the transactions was that he was out of pocket.

Mr. Hall said it appeared from Cheaney's pass-book that he had paid altogether to Chamberlain and Fox 4,830*l.* for 690 gallons of spirit at 7*l.* per gallon. Fox had admitted making a profit of 1,200*l.* and Chamberlain had admitted a profit of over 1,000*l.* (This was denied by Chamberlain.) In reply to Mr. St. Gerrans, witness said Fox showed him his books to prove that he was financially in low water at the time, and that these transactions enabled him to clear off certain debts. Answering Sir R.

Muir, witness said that Cheaney having bought 690 gallons at 5*s.* 8 overproof and reduced that to the trade strength of 30 underproof would get 1,557 gallons, and a profit of 15*s.* a gallon on that if all sold would amount to 1,167*l.*, but the profit on that which he actually sold to the public was 982*l.* 10*s.*

Sir R. Muir: You seized the whole of the stock he had in his possession—140 gallons?

Witness: Yes. The cost price of that to him at 7*l.* per gallon would be 987*l.*

So that you seized from him goods which were equivalent in money to more than the amount of profit he had made?—Yes.

The Magistrate: So that, in fact, taking into consideration your seizures, he made no profit, but a small loss?—Yes.

The Clerk: And he will never get that back?—I am afraid not. (Laughter.)

Mr. Dart: The Act provides that the seized goods shall be forfeited.

Sir R. Muir urged that the law under which these summonses had been issued was enacted for the purpose of protecting the Revenue. The defendants apparently thought they saw their way to disregard the regulations in order to make a trade profit without defrauding the Revenue of a single sixpence. They flouted the provisions of the statute without committing any of the mischiefs which that statute was passed to prevent, and while that was admittedly illicit business it was, in his contention, in no way fraudulent. There was no fraud committed on any person or on any public Department. His client, in the result, had made no profit out of the transactions, while the Revenue had gained a small sum. He admitted that that was not the result intended by his client—(laughter)—but it had so come about in fact. He submitted that in the circumstances it was not a case for heavy penalties.

Mr. Garrett, giving his decision, said: In this case it is quite true, as has been said, that the Revenue has not suffered by the transactions. It is also quite true that by the action of the authorities the defendants have been deprived of what would have been a very large amount of illicit profits. If I had been satisfied that they had made large profits I should have imposed penalties which would have more than swallowed up those profits. Apparently they have not on the whole made much profit out of the transactions, and they have not defrauded the Revenue of anything. Cheaney will have to pay two penalties of 25*l.* each, and two of 50*l.* each, making 150*l.* in all. Chamberlain will have to pay penalties of the same amount. On Fox I am going to impose rather smaller penalties, because I think he may have been led into this. He will be fined 25*l.* on each of four summonses—100*l.* In addition to these penalties, each defendant will have to pay ten guineas costs.

Business Changes.

MR. HAROLD HAW, chemist and druggist, Silsden, has purchased the business of Hardy & Co., chemists, 5 Albert Terrace, Blackpool.

MR. GEORGE F. JARVIS, chemist and druggist, Workington, has purchased the business of the late Mr. Peter Simpson, 105 Denton Street, Carlisle.

MR. L. STOTT, chemist and druggist, has purchased from Mr. F. Ellis, chemist and druggist (Charles Gadd & Son), the businesses at 164 Wyndham Road, London, S.E. 5, and 163 New Kent Road, S.E. 1.

STAFFORD ALLEN & SONS, LTD., Cowper Street, London, E.C. 2, and Long Melford, are erecting extensive premises at Squirrels Heath, Essex, to which some of their departments will eventually be removed. It is hoped that one of the new factories will be completed in six months. The site adjoins a main line, giving easy communication with the London docks.

New Companies and Company News.

P.C. means Private Company and **R.O.** Registered Office.

OPENSHAW'S PHARMACY, LTD. (P.C.).—Capital, 1,000*l.* Objects: To carry on the business of wholesale or retail chemists and druggists, wine and spirit merchants, dentists and opticians, etc. **R.O.**: 41 Winter Hey Lane, Horwich.

HEADS (WHITWORTH), LTD. (P.C.).—Capital, 500*l.* Objects: To take over the business lately carried on by J. Head, at 465 Market Street, Whitworth, and to carry on the business of chemists, druggists, drysalers, oil and colourmen, etc. **R.O.**: 465 Market Street, Whitworth, near Rochdale.

SHAWINIGAN, LTD. (P.C.).—Capital, 10,000*l.* Objects: To carry on the business of manufacturers of and dealers in mineral, metallic and electro-chemical substances of all kinds, wholesale and retail manufacturing chemists, druggists, drysalers, oil and colourmen, etc. **R.O.**: 1 Tudor Street, London, E.C.

WESTERN TABLET Co., LTD. (P.C.).—Capital, 10,000*l.* Objects: To carry on the business of wholesale, retail, manufacturing and dispensing chemists, artists' colourmen, etc., and to adopt an agreement with P. Barrs. The first directors are P. Barrs, 33 Lancaster Park, Richmond, S.W., chemist; E. P. Taylor, and G. H. Maile.

SNOWDRIFT TRADING Co., LTD. (P.C.).—Registered as a company limited by guarantee, but having a capital (20,000*l.*) divided into shares. Each member is liable for 1*s.* in the event of winding up. Objects: To enter into a contract with W. Allan, of Moscow, for agency business, as formerly carried on by Snowden, Sons & Co., Ltd., for the sale of grease, oil and machinery, etc. Solicitor, W. Sparks, 32 Walbrook, London, E.C.

COMPAGNIE COMMERCIALE DU NORD, SOCIÉTÉ ANONYME.—Particulars filed under Section 274. Incorporated in Belgium July 4, 1919, to import and export industrial and merchantable commodities, to buy, sell and manufacture chemical and pharmaceutical products, etc. Capital, 1,000,000*frs.* in shares of 1,000*frs.* each. Directors: G. A. Steffens, Antwerp (Norwegian); Carl Ivar Carlson, The Nook Bungalow, Shepperton (Swedish); and A. M. Goffin, Paris (Belgian). British address: 54 Gracechurch Street, London, E.C., where C. I. Carlson is authorised to accept service.

C. F. GERHARDT, LTD. (P.C.).—Capital, 30,000*l.* Objects: To acquire the business carried on at 5 Fenchurch Street, E.C., by C. F. and C. G. Gerhardt, as "C. F. Gerhardt," and to carry on the business of importers and exporters of and dealers in drugs, chemicals, drysalers, minerals and produce, etc. The first directors are: C. F. E. Gerhardt, "Woolleys," Hambledon, Henley-on-Thames (French by birth); C. G. J. Gerhardt, "Woolleys," Hambledon, Henley-on-Thames (British by birth); and C. E. Alexander, "Ivinghoe," Hendon Avenue, N. 3 (British by birth). **R.O.**: 5 Fenchurch Street, London, E.C.

ARTHUR BERTON, LTD.—The directors have declared a half-yearly dividend at the rate of 10 per cent. per annum on ordinary and 6 per cent. per annum on the preference shares.

UNITED GLASS BOTTLE MANUFACTURERS, LTD.—The directors have declared an interim dividend at the rate of 10 per cent. per annum for the half-year, less tax, on the old ordinary shares.

SCOTTISH OIL COMBINATION.—The registration of a new company, to be known as Scottish Oils, Ltd., with a capital of 4,000,000*l.*, is said to be practically completed. The Pumpherston Oil Co., Ltd., the Broxburn Oil Co., Ltd., the Oakbank Coal Co., Ltd., Young's Paraffin Light and Mineral Co., Ltd., and James Ross & Co., Ltd., are concerned in the transfer, and the ordinary shares of these companies will be acquired by the new company. Certain possessions and liabilities of the British Petroleum Co., Ltd., and the Homelight Oil Co., Ltd., will also be taken over.

London Salon of Photography.

THIS annual exhibition is being held at 5A Pall Mall East, London, W., and is, as usual, full of interest. The technical quality of the work is very high and the choice of subjects covers a wide range. Children's portraits are always of interest, and it is worth observing that the naturalness has not been lost. Nos. 33, 45, 56, 129, and 130 are well worth looking at. A particularly happy shot is "The Arch Elf" (No. 158). In adult portraits there are some very good heads, full of character, notably No. 165, by N. E. Luboshez. By special treatment Bertram Park (No. 133) has brought out the anatomical planes of the face with a very interesting result. No. 17, a silhouette; No. 89, a stately portrait of a woman, are good; and in No. 233 Mrs. Barton has achieved an excellent outdoor result. "Lais," by Arthur F. Kales, is a very charming study of a girl with sunlight playing over her. London has provided a good field for some very interesting subjects as shown by No. 262, "The Council Cars"; No. 101, "The Wig Shop in the Temple"; and No. 290, "Staple Inn, Holborn." Architecture always makes its appeal. No. 72, "A College Chapel at Oxford," is free from the heavy contrasts so often seen, and is full of clear good tone and detail. Landscape shows up well. There are several decorative effects. Leonard Misonne has obtained a broad effect with the difficult material of foliage details at the edges of a wood. Chemists will be interested in No. 216, a retort and an old pharmacy pot, which shows how the adjuncts of chemistry may be made use of to get an artistic picture. There are a few memories of the war in No. 49, a silhouette of a field gun and its men; No. 85, soldiers at a station; and No. 403, the Old Guard moving off. No. 440, a bull-fight picture, is interesting. The nude is treated in a more happy way than formerly. No. 2, a study of a back; No. 22, "Pandora"; No. 33, "The Naiad," are quite good. Arthur Kales has two good figure studies in Nos. 104 and 105. There are some bird studies by George Alexander which produce the effect of chalk drawings. A bizarre result is that of No. 196, "Dazzled Jazz Rags." Unusual subjects are Nos. 146 and 180, portraying Chinese.

Personalities.

Two daughters of Mr. J. C. Cotton, chemist and druggist, St. Helens, have passed the Senior Oxford Local examination, one having gained honours.

MR. JOHN TAYLOR, J.P., chemist and druggist, Lucius Street, Torquay, has been appointed almoner of the Jordan Lodge of Freemasons, of which he is a Past-Master.

MR. W. A. FEWSON (late superintendent with John Barker & Co., Ltd., Kensington, London, W.) has, after four years' service with the Colours in France, joined the representative staff of Prichard & Constance (Wholesale), Ltd., manufacturing chemists and perfumers, 469 Holloway Road, London, N. 7, and is travelling in the Home Counties.

MR. P. F. ROWSELL, chemist and druggist, Vice-President of the Pharmaceutical Society, presided at the recent installation of a tank presented by the National War Savings Committee to the borough of Exmouth. Mr. Rowsell is Chairman of the Exmouth War Savings Committee, which under his leadership has been instrumental in raising 750,000*l.* in War Loan.

MR. THOMAS RIDLEY, chemist and druggist, Carlisle, has been nominated for election as mayor of the borough. Mr. Ridley acquired his present business in 1884, and has since extended it by the purchase of another pharmacy. Both his sons are pharmacists, and are associated with him in business. He has been a member of the Carlisle City Council since 1906, and has rendered valuable service on the Health Committee and in other municipal work.

Association Affairs.

Bradford.—The proprietor-members of the Bradford Pharmacists' Association met, on September 12, to consider the question of organising proprietors, apart from the present association of qualified chemists, as required under the prospective Industrial Council. It was clear that the situation does not greatly appeal to the chemists of Bradford, an initial difficulty in the matter being that both the President (Mr. W. Sutcliffe) and the Hon. Secretary (Mr. A. T. Bailes) of the Association are non-proprietors. Mr. Sutcliffe vacated the chair, after mentioning that the Council of the Association suggested the formation of a proprietors' committee within the Association, rather than a separate organisation. Mr. J. A. White was then elected Chairman, and the meeting unanimously approved the Council's suggestion. As it was considered permissible for a non-proprietor pharmacist to act as secretary of the new Committee, Mr. Bailes was at once elected. Objection was made against increasing the local subscriptions to meet the expenses of the new movement. A discussion followed on the proposals to transform local Associations into branches of the Pharmaceutical Society, and to make membership conditional on membership of the Society. Mr. Metcalfe said he agreed that chemists should be members of the Society, but it is quite another matter to convert local Associations into branches. Mr. Faull said chemists ought certainly to be in the Society, but he was against compulsion. He is a member of the Society himself, he said, though he must admit he does not think very much of it. The matter was left to the next ordinary meeting of the Association. The draft scheme of group federation was considered, and it was agreed to take part, but the meeting could not decide whether the scheme applies to the whole Association or to the proprietors' group only. On this point, probably, hangs the question of the number of delegates the Association may send. Difficulty was experienced in selecting delegates, but eventually Messrs. White and Metcalfe were provisionally appointed.

Eastbourne.—A meeting of the Eastbourne Pharmacists' Association was held on September 9, at which Circular P.S. 68 was considered and the Secretary instructed to reply. A committee was appointed to consider the draft constitution and rules of the Federation of Associations. The principle of federation was agreed to by the meeting, and the hope was expressed that the activities of the Federation would be devoted to the betterment of the commercial side of pharmacy. The area covered by the Southern Division was thought to be too great, and the Association suggests a division into three parts—East, Central, and West Southern Counties. It was also recommended that the voting powers be confined to elected delegates; that *ex-officio* representatives be present only in an advisory capacity; that, in the event of an appointed delegate being unable to attend, the Association may send a deputy; and that the delegates' expenses be paid from a general fund of the Federation, subscriptions to be increased to meet this if necessary.

Hull.—At a meeting of the Hull Pharmacists' Association, held on September 9, the President (Mr. A. S. Snowden) in the chair, Mr. R. F. Jones gave a paper on *Pharmacy and its Future Outlook*. Mr. Jones introduced his subject with some interesting reminiscences of pharmacy. The passing of the National Insurance Act, he said, forced a certain amount of organisation upon pharmacists by the introduction of Pharmaceutical Committees, which are doing a vast amount of good in looking after the best interests of panel chemists throughout the country. The need for a strong organisation was pointed out, and reference made to the apathy shown by pharmacists in voting for the election of the Local Associations Executive Committee. Although for years a real federation of local associations had been desired, when the first steps were taken to put into operation a workable scheme only 35 to 36 per cent. of the members took the trouble to vote. The speaker appealed also for members to attend more regularly the meetings of their associations.

Staffordshire.—The North Staffordshire Chemists' Association met on September 11, Mr. Roland Prince (President) in the chair. Mr. Prince said that since their last meeting they had to deplore the loss of one of their oldest members, Mr. Edmund Jones, J.P. (Hanley), who was a founder of their Association and had filled the offices of secretary and of President. He had also represented them on the Insurance and Local Associations Committees. A vote of sympathy was sent to Mrs. Jones on her bereavement. Messrs. Howson and Mott (Hanley) were then elected members. Mr. Kemp gave details of the finances of the Pharmaceutical Committee, which, he said, compared favourably with those of other committees. Mr. Bentley (Hon. Secretary) said that the Association had sent two contributions to the War Auxiliary Benevolent Fund, totalling 140*l.* 12*s.* He also read a letter from Mr. H. O. Lloyd (Birmingham) thanking them for supporting his candidature at the Local Associations Executive election. Mr. Bentley informed the meeting that one of their members, Mr. Challinor (Fenton), was being married that day, and the secretary was requested to send him congratulations. A discussion followed on the Shop Hours Bill. There seems to be considerable difference in the closing hour in different districts, Hanley being the latest, with 8 to 8.30 p.m. The secretary was requested to write to several associations in industrial districts for information; it was resolved to send a deputation from the Pharmaceutical Committee to the Panel Committee to see if alteration could be made in the doctors' surgery hours so as to enable chemists to close at 7 p.m. In view of the proposed Bill and the necessity of shorter hours for assistants, it was resolved to urge the Pharmaceutical Society to endeavour to promote earlier closing throughout the country.

Worcester.—The opening meeting of the session was held on September 11, Mr. J. Need (Malvern) presiding. Communications from the Proprietary Articles Trade Association were read requesting that the Association should not at present press for a better graduated scale of patent-medicine duties—which was agreed to—and suggesting a meeting at which a deputation from the Propaganda Committee would give an address. This was not considered necessary. The secretary stated that he had sent a copy of the draft scheme and suggested rules and constitution of the proposed Federation of Associations to every member. Mr. Pout suggested that the appointment of the secretary should be made by the Federation, also that the levy necessary would be at least 1*s.* 6*d.* per member, and the estimate of 1*s.* was too low. He thought the funds of the Association would allow for the payment of this without increasing the annual subscription. It was agreed to join the Federation, and Messrs. Price and Pout were elected to represent the Association. Mr. Wilson Sudlow (Great Malvern) then read a paper on *Dispensing Charges*, and in his opening remarks he emphasised the fact that a pharmacist was a professional man as well as a trader, and he should receive an adequate fee for his skill as well as a profit on the drugs handled. Mr. Sudlow proceeded to detail different methods of pricing, and showed that the results differed very little. His object, he said, in introducing the subject was that by discussion some arrangement might be arrived at which would be adopted. A discussion followed, and it was unanimously agreed that a minimum be fixed for Worcestershire, as follows:

Pills, 1 doz., 1*s.* Powders, 1 doz., 1*s.* 6*d.*; $\frac{1}{2}$ doz., 1*s.* Cachets, simple, 1*s.* 9*d.*; compound, 2*s.* doz. Suppositories, $\frac{1}{2}$ doz., 1*s.* 6*d.*; 1 doz., 2*s.* 6*d.* Mixtures, tablespoon, 4 oz., 1*s.* 3*d.*; 6 oz., 1*s.* 6*d.*; 8 oz., 1*s.* 9*d.*; 12 oz., 2*s.*; two tablespoons, 6 oz., 1*s.* 4*d.*; 8 oz., 1*s.* 6*d.*; 12 oz., 2*s.*; 16 oz., 2*s.* 6*d.* Lotions and gargles, 4 oz., 1*s.* 3*d.*; 6 oz. and 8oz., 1*s.* 6*d.* Liniments, retail price of ingredients as per minimum retail price-list, with the cost of container and the dispensing fee (6*d.*). Ointments, 1 oz., 1*s.*; 2 oz., 1*s.* 6*d.*

The Secretary was instructed to send a copy of the above to every chemist in the county. The following pharmacists were elected members of the Association: Mr. W. H. Taylor (Bromsgrove), Mr. Noel Swindle (Great Malvern), Mr. W. Thomas (Great Malvern).

Births.

PARSONS.—At Racton View, Southbourne, Sussex, on September 15, the wife of William R. Parsons, chemist and druggist, of a daughter.

WEATHERILL.—At 73 Springbank Road, Lewisham, London, S.E. 13, on September 9, the wife of R. J. H. Weatherill, chemist and druggist, of a son.

Marriages.

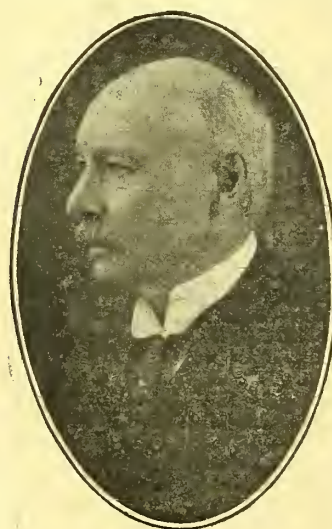
ANDREWS—WILLS.—At St. Mary's Parish Church, Harrow-on-the-Hill, on September 12, by the Rev. T. Joyce, vicar, Harold Newton Andrews, Ph.C., youngest son of the late Mr. Thomas Newton Andrews, N.I.E.E., Plymouth, to Evelyn, youngest daughter of Mrs. C. E. Wills "Kenbar," Harrow, and Southport.

HOLLINGWORTH—ALLATT.—At St. James's Church, Heckmondwike, on September 17, Major Arthur Frankland Hollingworth, M.C., Royal Field Artillery, son of Mr. F. W. Hollingworth, Ph.C., 33 Mexborough Avenue, Leeds, to Sarah Marguerite (Sadie), elder daughter of Mr. W. Marcus Allatt, Birkhead Terrace, Heckmondwike.

SHERWIN—FRESSION.—At Dreden Church, Staffs, on September 4, by the Rev. C. Codling, George William Sherwin, chemist and druggist, South Wigston, to May Heath, youngest daughter of Mr. E. E. Fresson, Longton.

Deaths.

SQUIRE.—At The Ryepeck, Shepperton, on September 16, of angina pectoris, Sir



SIR PETER WYATT SQUIRE.

Peter Wyatt Squire, Ph.C., F.C.S., F.L.S. (Squire & Sons, Ltd., 413 Oxford Street, London, W. 1), aged seventy-two.

The news of Sir Peter Squire's death will be received throughout the world of pharmacy with deep regret—a regret that will be intensified by the realisation that scarcely more than a year has elapsed since he was being congratulated on receiving the honour of knighthood (*C. & D.*, 1918, p. 452). Peter Wyatt Squire was the third son of the late Mr. Peter Squire, who died in 1884 at the age of eighty-five. He received his training at the well-known pharmacy at the corner of Oxford Street and Duke Street, London,

and was for a time a student at the Pharmaceutical Society's School of Pharmacy, Bloomsbury Square, W.C., where he gained a botany and materia-medica certificate. He became a pharmaceutical chemist in 1866, and in the following year—to be exact, on December 31, 1867—was gazetted jointly with his father to "the place and quality of Chemist and Druggist upon the Establishment in Ordinary to Her Majesty Queen Victoria." This position had already been held by Mr. Peter Squire from the time of Queen Victoria's acces-

sion in 1837; and when he retired in 1877 his two youngest sons, Peter Wyatt and Albert Herbert, received the appointment. On the death of Mr. A. H. Squire in 1897, his brother retained office alone; and he was confirmed in his title successively by King Edward VII. (in 1901) and King George V. (in 1910). It will be seen, on examining these dates, that the services of Mr. Peter Squire and his third son in this capacity extend over a period of eighty-two years. Mr. Peter Wyatt Squire (as he then was) was at one time a member of the Council of the Pharmaceutical Society, and lectured at an evening meeting some years ago on the preparation of tissues for microscopical examination, upon which subject he subsequently issued a monograph. These activities, however, contributed less to his fame than his share in all the editions of "Squire's Companion to the British Pharmacopoeia" from the year 1877 onwards. The first edition, edited by his father, appeared in 1864 and comprised 220 pages; the nineteenth edition (1916) extends to 1,691 pages. The history of this monumental work was related in *THE CHEMIST AND DRUGGIST*, 1916, p. 631; it must suffice to record here that from the first it has held a place of its own in the regard of pharmacists. In recent years, Sir Peter Squire's public appearances were few; but at the International Congress of Applied Chemistry, 1909, which was held in London, he presented a paper on the standardisation of drugs that was rightly considered to have maintained his own fame as an original investigator and, at the same time, to have enhanced the reputation of British pharmacy with the other nations represented at the gathering. Sir Peter's thoroughness extended to his recreation. He was the holder of records in golf, punting, and tennis; and the power of throwing himself energetically into such pastimes was, no doubt, a material factor in his success in life. "Pharmacy is proud of the work he has done and of the honour he has brought upon the craft" were the final words of a tribute paid to him when the announcement of his knighthood was made: they are equally appropriate now. The funeral is announced to take place on September 19, at 3.30 p.m., at Shepperton Church.

BROOMHEAD.—Recently, Mr. James Broomhead, M.B., C.M., Haslingden, aged fifty-two. Dr. Broomhead served an apprenticeship in pharmacy at Aberdeen, and subsequently qualified in medicine at the University of that city.

BROWN.—At Green Cottage, St. Boswells, on September 8, Mr. Harry Abraham Brown, chemist and druggist. Mr. Brown qualified in 1914.

DUPLOCK.—At Guy's Hospital, London, S.E. 1, on September 10, Mr. Walter Duplock, chemist and druggist, The Pharmacy, Staplehurst, second son of the late Mr. Edwin Marten Duplock, aged fifty-six. Mr. Duplock passed the Qualifying examination in 1887, and was for some time with Savory & Moore, Ltd., London, W. Twelve years ago he acquired the business of Mr. J. W. Normansell, Ph.C., at 59 Bridge Street, Chester. He modernised the premises, including the shop-front, which was one of those illustrated in *THE CHEMIST AND DRUGGIST* in connection with the Chester meeting of the British Pharmaceutical Conference (*C. & D.*, II., 1914, p. 155). Mr. Duplock was a member of the Local Committee of this Conference. In the same year he disposed of his business to Mr. R. W. Dunn, and subsequently carried on business at Staplehurst.

HAY.—At Liverpool, recently, the widow of the late Mr. Thomas Alexander Hay, chemist and druggist, 79 High Street, Wavertree. The funeral took place on September 16.



MR. WALTER DUPLOCK.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," September 3, 1919.)

- "MENNEN'S" under oval portrait of man for perfumery, etc. (48). By Gerhard Mennen Chemical Co., 42 Orange Street, Newark, U.S.A. 385,850. (Associated.)
- "RYSA" for perfumery, etc. (48). By E. Rimmel, Ltd., 1A Darnley Road, Hackney, London, E. 9. 392,412.
- "THE PAM-PAM FOR SOFTNESS AND SWEET ATTRACTIVE GRACE," with device on circular label; for all goods (48). By S. S. Booty, 68 Avenue Chambers, Southampton Row, London, W.C. 1. 393,250. (Associated.)
- "LEDBRU" and "LEDEW" for brushes (50). By Ledew Brush Works, Ltd., 57 Chiswell Street, London, E.C. 1. 392,978/9. (Associated.)

(From "The Trade-marks Journal," September 10, 1919.)

- "OXOL" for preparations to prevent boiler incrustation (1). By T. Schuler, 77 Rue Erlanger, Paris. 388,726.
- "METRO SULPHATE" on pyramid-shaped device; for sulphates (1) and for fertilisers (2). By South Metropolitan Gas Co., 709 Old Kent Road, London, S.E. 15. 389,507/8. (Associated.)
- "CAMEL DYES," etc., with picture of camel; for aniline dyes, etc. (1). By J. Campbell & Co., 75 Hudson Street, New York, U.S.A. 387,108.
- "PAKKO" for dyes, etc. (1), and for all goods (47). By J. M. McGeehan, 24 Oswald Street, Glasgow. 390,570/1. (Associated.)
- "BRORO" for chemicals (1). By Brotherton-Ratcliffe & Co., Ltd., Winchester House, Old Broad Street, London, E.C. 2. 391,721. (Associated.)
- "ASHBLEK DYE HAS GAINED A FOOTING IN THE WORLD," with device of world and two feet ("Ashblak" disclaimed); for dyes (1 and 4). By H. Ashwell & Co. (1908), Ltd., 18 Low Pavement, Nottingham. 393,062/3. (Associated.)
- "LORENCO" for goods (1) and for floor polishes (50). By The Lawrence Chemical Co., Ltd., 5 & 6 St. Dunstan's Hill, London, E.C. 3. 393,549/550. (Associated.)
- "WALTER BROWN'S IMPROVED HORSE POWDER," with portrait of applicant; for horse powders (2). By W. Brown, 107 Cooper's Lane, Smethwick, Staffs. 391,157.
- "SPAZA BRAND ANODYNE BALM" for rheumatism medicines, etc. (3). By J. Wolffe, 10 Cavendish Place, Brighton. 391,288.
- "OINTEX BRAND OINTMENT" for a skin ointment (3). By P. G. Dales, 8 Barnsley Road, Stairfoot, near Barnsley. 391,961.
- "RAMA" for goods (8). By J. F. J. Malone, 86 Rothbury Terrace, Newcastle-on-Tyne. 390,438.
- "DEXTRO MALTO No. 3" and device ("Dextro," "Malto," and "No. 3" disclaimed); for malt foods (42). By Mead, Johnson & Co., corner of Ohio Street and St. Joseph Avenue, Evansville, Indiana, U.S.A. 390,958.
- "CURVE BRAND" with device of curves; for food substances (42). By W. Wright, 19-Pudding Chare, Newcastle-upon-Tyne. 391,383.
- "B.B.C.S. TIPPITILLI DIGESTIVE TIPS" ("B.B.C.S. disclaimed); for tea (42). By the Barnsley British Co-operative Society, Ltd., 58 Station Road, Summer Lane, Barnsley. 392,544.
- "KERNILLO" for food substances (42). By F. W. Hampshire & Co., Ltd., Full Street, Derby. 392,601.
- "CARRY ON COOK," with picture of cook in kitchen and letters "C.O.C." ("C.O.C." disclaimed); for food substances (42). By J. W. B. Godfree, 5 Bull Ring, Birmingham. 392,686. (Associated.)
- "MALVOMA" for food substances (42). By D. C. Stewart, Pickersleigh Road, Great Malvern. 393,233. (Associated.)
- "CROCODILE" and "ALLIGATOR," with pictures of same; for soap (47) and for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancs. 392,908/9/10/11. (Associated.)
- "MULSIFIED," with facsimile signature "R. L. Watkins" ("Mulsified" disclaimed); for a liquid shampoo (48). By R. L. Watkins, 1276 West Third Street, Cleveland, U.S.A. 387,173.
- "VEGETINE" for toilet creams (48). By the David Macqueen Co., Ltd., 13 Paternoster Row, London, E.C. 4. 387,731. (Associated.)
- Seal device with monogram (device disclaimed); for dentifrices (48). By Klendenta Co., 47 Willow Road, Hampstead, N.W. 3. 393,057.

"LUCREME" and "LUSOLINE"; for toilet preparations (48). By Lucille Frères (London), Ltd., Warton Road, Stratford, E. 15. 393,388/9.

(From "The Trade-marks Journal," September 17, 1919.)

- "MERITAL" for goods (1). By Wigglesworth, Ltd., Peel Street, Westhoughton, Lancs. 393,237. (Associated.)
- "IRISOL" for all goods (2). By J. & W. Irvine, 10 Binnie Place, Glasgow, East. 391,410.
- "O T" device on circle; for medicinal chemicals (3), perfumery, etc. (48), and for a cleaning preparation (50). By Ogston & Tennant, Ltd., Wright Street, Renfrew. 390,948/949/950. (Associated.)
- "TONWORTH BRAND EPSOM SALTS" for medicinal salts (3). By The Wade-Wilton Synthetic Drug and Chemical Co., Hill Top, Bramley, near Leeds. 391,328.
- "NEVO BRAND HEALTH SALT" for medicinal chemicals (3). By Cerebos, Ltd., Station Road, Greatham, co. Durham. 393,110.
- "SEPTOMINT" for medicinal chemicals (3). By International Chemical Co., Ltd., 7 Wybert Street, Munster Square, London, N.W. 1. 393,254.
- "SILVALINE" for all goods (3). By Standard Optical Co., Ltd., 26 Hatton Garden, London, E.C. 1. 391,713.
- "FEENVILLE" for food substances (42). By W. O. Allen, 53 Murray Street, West Hartlepool. 392,209.
- "SELEX" for all goods (42). By E. & J. Burke, Ltd., 16 Bachelor's Walk, Dublin. 392,739.
- "NATURE'S OWN BRAND PUREST TABLE HONEY," etc. ("Nature's Own" disclaimed); for honey (42). By J. Trickey & Son, Knapp Farm, Hillfarrance, Taunton. 393,107. (Associated.)
- "SWEET OIL" under picture of jug ("Sweet oil" disclaimed); for soaps (47 and 48). By T. Hedley & Co., Ltd., City Road, Newcastle-on-Tyne. 393,592/3. (Associated.)
- "ALPIFLOR" for all goods (48). By A. Vial, 6 Rue des Arts, Saint Etienne (Soire), France. 390,870.
- "PYROTONE" for tooth-paste (48). By The Dianthus Distributing Agencies, 9 Gamage Buildings, High Holborn, London, W.C. 1. 391,549.
- "YAWLOFENE" for hair preparations (48). By W. Smullen, 38B South Richmond Street, Dublin. 393,470.
- "KAREMA" for all goods (48). By J. A. Bingham, 43 Donegall Place, Belfast. 393,912.
- "FIRST COAT DOPE" over cross device; for aeroplane dope (50). By The British Emailite Co., Ltd., 30 Regent Street, London, S.W. 1. 392,676. (Associated.)

Wills.

MR. JOHN HARDMAN, J.P., chemist and druggist and dentist, 88 St. Mary's Road, Glossop, who died on July 27, left estate valued at 266*l.* 6*s.*

MR. JAMES GEORGE PLUMLEY, retired chemist and druggist and dentist, 2 Sion Hill, Clifton, who died on July 23, left estate valued at 8,655*l.* 3*s.* 8*d.* gross, with net personality 1,226*l.* 15*s.* 10*d.*

MR. WILLIAM ROBERT MAUD, chemist and druggist, Market Place, Pontefract, and Knottingley, who died on June 13, left estate of the gross value of 6,834*l.* 9*s.* 1*d.*, with net personality *nil*. The testator left the net proceeds of the sale of his business as a chemist at Aire Street, Knottingley, upon trust for his sister Mary Roberts for life, with remainder to his residuary estate, which he left to his wife for life, and then equally between his three sons William Monkman, Arthur John, and Charles Hillaby.

MR. HENRY OWEN HUSKISSON, Ph.C., F.I.C., F.L.S., The Bruary, Moss Lane, Pinner, Middlesex, who died on June 22, left estate of the gross value of 12,904*l.* 18*s.* 3*d.*, with net personality 11,783*l.* 16*s.* 3*d.* Probate of his will has been granted to his daughter Miss Eleanor Maud Huskisson of the same address, and power is reserved to grant probate also to his nephew William Marshall Huskisson. The testator left 25 guineas each to his nephews Harry Adrian, and Wm. Marshall Huskisson, an annuity of 40*l.* to his daughter Catherine ("Sister Bertha"), of the Convent, Malvern Link, his household effects equally between his daughters Eleanor Maud and Lydia Elsie, lands at Sibley, Lincs, to his daughter Lydia Elsie, and the residue of his property equally between his daughters Eleanor and Lydia.

Trade Notes.

THE TELEGRAPHIC ADDRESS of Mr. A. E. Depreter, 24 Holborn, London, E.C. 1, is "Dedeprelow-Smith," not as printed in his advertisement last week.

HEALO.—A bonus and free advertisement in the chemists' local paper are offered by Maurice Smith & Co., Ltd., manufacturing chemists, Kidderminster, to dealers in Healo skin ointment.

ERASMIC PERFUMERY.—The Erasmic Co., Ltd., Warrington, remind chemists that perfumery for the Christmas season should be on order within the next few weeks, so as to ensure a supply and prompt delivery.

ENGLISH PROPRIETARIES IN FRANCE.—Mr. A. W. B. Scott, 38 Rue du Mont-Thabor, Paris, will be at the Savoy Hotel, London, on and after October 1, and can arrange interviews with British houses wishing to introduce their specialities into France.

BEAUTOID TOILET PREPARATIONS.—A window-display offer of the preparations of the Beautoid Co., 220 Tower Bridge Road, London, S.E. 1, is made in an advertisement in this issue. A sample order is given showing the cost and profit of the various preparations.

ITALIAN ESSENTIAL OILS.—Mr. C. A. Charpentier, 184 Aldersgate Street, London, E.C. 1, has been appointed sole agent for the United Kingdom for La Zagara (S. A. Co-operativa tra gli Agrumicoltori della Provincia di Reggio-Cal.) essential-oil manufacturers, of Reggio-Calabria.

ELECTRIC LAMPS.—Ward & Goldstone, St. Simon Street, Manchester, have prepared a special trade list dealing with pocket electric lamps, medical electrical apparatus, electric bells, and electric novelties, suitable for the season's trade. The list is sent on application, and chemists who are interested should send for it.

INGRAM'S MILKWEED CREAM.—A scheme of direct supply of Ingram's specialities from the Frederick F. Ingram Company, 411 Lafayette Boulevard, Detroit, U.S.A., is outlined in the company's advertisement in this issue. The toilet preparations referred to are Milkweed cream, Velveola Souveraine (face powder), Zodenta tooth-paste, rouge, and perfumes.

NORMA'S PERFUMES.—Walden, Walden & Co., manufacturing perfumers, 89 Great Portland Street, London, N.W. 1, have distinctive styles of packages for their perfumes and toilet preparations. Norma's lavender water, for example, is packed in a square bottle, ribbed in such a manner that the brilliancy of the contents is enhanced. Neatness and finish are attractive features of these goods.

SIR JOHN CASS'S TECHNICAL INSTITUTE.—The new session commences on Thursday, September 25. The Institute, which is situated in Jewry Street, Aldgate, London, E.C., is specially devoted to technical training in chemistry, metallurgy, and physics. There are courses in preparation for the science degrees of the London University. Full details of the courses are given in the syllabus of the Institute, which can be had on application.

AYRTON'S ROYAL ORCHID.—Ayrtton, Saunders & Co., Ltd., Liverpool, are advertising in this issue Ayrtton's Royal Orchid, which we have recently had an opportunity of examining. The perfume is good value and packed in a distinctive style, in which royal purple and gold are predominant. We notice that in the September price list the company is circulating copies of the letter by Mr. W. H. Saunders, on "Face Value," which appeared in THE CHEMIST AND DRUGGIST, August 9.

SATINETTE BED SHEETINGS.—We have had the opportunity of examining a book of samples of satinette bed sheetings made by J. G. Ingram & Son, Ltd., The London India Rubber Works, Hackney Wick, London, E. 9. The book contains eighteen samples of different kinds of satinette bed sheeting in red and drab. The sheeting is acid-proof and aseptic, with a pleasant supple feel that bespeaks the use of the purest rubber in its preparation. Large buyers should write for the book of samples.

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Saturday, September 20

Grocery, Provision, and Allied Trades Exhibition and Market, Royal Agricultural Hall, London, N. 1. Daily (from 10 A.M. to 8 P.M.) until September 26. Opening day, 10 A.M. to 5 P.M.

Wednesday, September 24.

North Wales Pharmacists, Queen's Hotel, Rhyl, at 3.30 P.M. Address by Sir William Glyn-Jones. Mr. W. P. Evans (Liverpool) will preside.

SOUTH WALES AND MONMOUTHSHIRE LOCAL PHARMACISTS' ASSOCIATIONS FEDERATION.—The next meeting will be held at Haverfordwest on October 1.

CHESHIRE COUNTY PHARMACISTS' ASSOCIATION.—The meeting arranged for September 24 has been postponed to October 8, at the Albion Hotel, Manchester.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—The opening of the School of Pharmacy, 17 Bloomsbury Square, London, W.C., will take place on October 1, at 3 P.M. The Inaugural Address will be delivered by Mr. W. J. Ugrow Woolcock, O.B.E., M.P.

THE NATIONAL CHAMBER OF TRADE.—The half-yearly meeting of the Executive Council will be held in the Council Chamber, Guildhall, London, E.C., on October 9. Particulars of arrangements from the Offices, Buchanan Buildings, 24 Holborn, London, E.C.

WESTERN PHARMACISTS' ASSOCIATION (OF LONDON).—The annual reunion will be held on October 2, at Pinoli's Restaurant. There will be a reception by the President at 7 P.M., followed by supper, whist-drive, and concert. Morning dress. Tickets (6s. each) may be obtained from any member of the Committee.

Information Department.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

INFORMATION WANTED.

- | | |
|------------------------------------------------|----------------------------------------|
| 23/49. Scott's Embrocation. | 23/49. "Zetrol" lime juice. |
| 23/49. Scott's Mag. Calc. | 20/4. Sharnan's Patent Syphon. |
| 21/62. "Electric" cough balsam. | 69/25. "Ninex" hair restorer. |
| 22/49. Colonial Ideal Syrup of Figs. | 27/9. Nichell's Olive Oil Soap. |
| 22/37. Machinery for making collapsible tubes. | 26/63. "Tern" foam (John Adare & Co.). |
| 22/17. "Antelope" black-head removers. | 25/58. Vettigras for destroying moths. |
| 24/29. Buxton's Bicarbonate of Soda. | 25/57. "Neo-Kola." |
| | 28/36. Parapeptus for fits. |
| | 27/18. Paiguer's Balsam. |

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.O. 4:

- | | |
|---------------------------------------|-------------------------------------------|
| "Aeme" crêpe bandage, 27/6 | Loofah in bales, 24/13 |
| "Antexema," 24/25 | "Marie Antoinette" shampoo, 23/42 |
| "Aremcol," 21/62 | "New Century" urethral syringe, 25/60 |
| Cachets "Seeca," 24/26 | "Numol," 17/69 |
| Capsules, medicinal, 22/12 | "Optona," 9/50 |
| Colgate's preparations; agents, 24/51 | Robin's Peptonate of Iron, 24/27 |
| Dimethyl sulphate, 25/32 | "Sanolite" 26/2 |
| Dinneford's Magnesia, 69/25 | Skuse's Herbal Tablets, 6/39 |
| "Eukotas" disinfectant, 17/69 | Sodium Chromate, 23/35 |
| "Eydol," 14/78 | Sodium Perborate, 3/42 |
| Filter Pulp (Belgian inquiry), 17/26 | "Solao," 4/50 |
| Fluorescein, 22/49 | "Solvo" toilet paper, 18/48 |
| French chalk, 17/72 | "Sorbo" rubber sponges, 256/60 |
| "Grexite," 26/2 | Starch, 26/53 |
| Hommel's Hematogen, 19/25 | "Tallianine," 27/7 |
| Honey, 26/49 | "Tartarine," 15/26 |
| Iodine, 14/30 | Tooth brushes (French and Japanese), 5/58 |
| Iodogenol (Pepin), 25/47 | Tucker's Asthma Cure, 25/46 |
| "Isola" vacuum flask, 13/30 | Vacuum-pans, 10/29 |
| Johnson's Palmolive Soap, 24/51 | "Vanite" cream, 18/48 |
| "Jontec," 11/65 | "Victory Absorbent," 11/69 |
| Kauffmann's Sulphur Bitters, 10/72 | Walker's Vinegar Bitters, 11/38 |
| Kiesow's, Dr., Essence of Life, 21/62 | "Winearnis," 21/62 |
| Laville's, Dr., Pills, 19/25 | Wrigley's "Spearmint" chewing-gum, 69/25 |
| Malt Extract (for France), 16/12 | Zymole Trokeys, 25/59 |

Observations and Reflections.

By Xrayser II.

I Congratulate the "C. & D."

and those for whom it caters on the attainment of its Diamond Jubilee, and as one of your oldest readers I venture to say that your account of the services your paper has rendered to the trade is rather understated than exaggerated. Considerations of space alone make it impossible to tell the complete tale of what we have owed, and still owe, to you. As long since as I can remember the *C. & D.* has not only been our chief bulwark against aggression from without, and the chief restraint upon foolish "alarums and excursions" from within the pharmaceutical body, but the fosterer of all our really progressive ideas and movements. May I as an old correspondent express a mild regret that you did not find room for a reference to those columns of your journal which have been described as "the ventilating shaft of the trade"? Nowhere else has the same freedom of public utterance been possible, and I am sure you will agree that your correspondence has been one of the most useful features of the paper.

The Question Suggested

by your leader *à propos* of this Jubilee admits of a greater variety of opinion than that of the value of the *C. & D.* Undoubtedly pharmacy proper has advanced greatly during these sixty years, and probably the profession of pharmacy as a whole occupies a more assured position than it did at the commencement of the period you review. Individual pharmacists are more competent than, as a rule, they were then, and, I may add, more careful and conscientious. Such incidents as the Bradford "daff" case are no longer thinkable, but they might have happened frequently then. I remember, indeed, finding nearly twenty years afterwards unlabelled kegs of soda carb. and arsenic standing side by side in the warehouse of a chemist whose stock I was valuing. But whether the trade now offers a better career from the money-getting point of view I am not prepared to say. Some of us "oldsters" would not admit that it does, and possibly this is not entirely due to the common tendency to regard the past as the golden age.

The Sheffield Assistants' Wage-scale,

like others I have already criticised, is an impossible one for the ordinary chemist in existing circumstances, and one of its conditions condemns it from the assistant's own point of view. It is to apply only to men and women who have served a recognised apprenticeship after the end of 1919—that is, I suppose, those who are apprentices under the new by-laws. Other assistants will be free to accept any wages they can get, and it needs no prophet to foresee that they will be most sought after. This of itself is a serious handicap for the apprentice assistant, but there is a still more serious consideration behind. Unless the conditions of pharmacy are revolutionised we shall never be able to pay these young scientists what they demand, and at the same time they will not (as I have previously said) be of so much practical value to us as the old shop-trained man. The result will be that we shall be driven to employ unapprenticed and what will doubtless be stigmatised as unskilled labour. It is likely, too, that a further result will follow: we shall to a very great extent cease to be dispensing chemists simply because that game will no longer be worth the candle. Many men declare that it is not even now, and certainly it will not be if we can only get qualified assistants at the rates now demanded. An equally remunerative trade (to put it mildly) may be done on "stores" lines, and to this we shall perforce sink. There are other points in this wage-scale that might be challenged such as the absurdly little difference between the wages of qualified men and managers.

The Blackburn

case under the Venereal Disease Act, taking it at the face-value of such reports as I have seen, opens up a pleasant prospect for the counter-prescriber, great or small. It would seem as if the treatment of any apparently simple ailment, such as a slight eruption or a sore throat, may at any time subject us to six months' imprisonment and a 100*l.* fine. For possibly it may prove that our apparently simple case was really syphilitic in origin. As I have said, I go by the reports only, but without such a diagnosis as few, if any, counter-prescribers attempt when asked for advice in simple ailments, we may easily find ourselves in this mess. The Venereal Disease Act may not have been covertly aimed at counter-prescribing as such, but it may apparently in some cases be so applied as virtually to serve the same purpose as if it had been.

What is Sal Volatile?

Re-reading "Nicholas Nickleby," after the lapse of more years than I care to number, I am surprised to find that Dickens, in that story, invariably means by it the solid smelling-salts so much in vogue among early Victorian heroines. The Oxford Dictionary gives only six instances of its use, the two earliest of which, dated respectively 1654 and 1709, apparently refer to the solid salt, but all the rest, from Swift and Fielding down to Mrs. Forrester (1880), to what we now know as spirit of sal volatile. Alleyne, however (1733), gives the name Sal Volatile to the then newly officialised *Spiritus Salis Volatilis Oleosi*, the Sal Volatile Oleosum of Quincy slightly modified. The term seems, indeed, to have been applied indifferently to both the solid and the liquid all through the eighteenth century and later, but I did not think it had been used of the former by so late a writer, and one of such eminence, as Dickens. In saying this I am, of course, not speaking of scientific or medical writers. It is almost a wonder that some "active and intelligent" police officer has not tried to catch us for supplying him with sp. ammon. ar. when ammon. carb. was meant! The name of the latter in the P.L. of 1746 was Sal Volatilis Salis Ammoniaci, and Rennie gives the name Sal Volatile to ammon. sesquicarb.

The Spuma Caustica of Pliny

referred to in your review of M. Gattefossé's "Agenda du Chimiste-Parfumeur," was only one of several means by which Roman ladies (and men, too) endeavoured to turn their raven locks into the golden tresses made fashionable by the vogue of the fair-haired beauties of the North, and it had other uses than this. We are told in the notes to Boettiger's "Sabine" that this is Martial's *spuma batava*, *qui donnait aux cheveux une couleur jaune rougeâtre*, and that the receipt for it is only given in part by Pliny. For a full list of its ingredients we are referred to the Supplement to Beckmann's "History of Inventions." The caustic property of the ashes employed was known long before the appearance of this pomade, and is mentioned by the elder Cato (born 234 B.C.). The name *cinerarii* given to the tiremen who dressed ladies' hair has been attributed to the use of these ashes. The pomade into which they entered had, as I have said, other uses, of which nothing need be said here. Readers interested in Roman toilet customs will find the whole subject pleasantly dealt with in an article by Mr. J. Henry Bell (partly founded on Boettiger) in the *C. & D.*, December 29, 1888, in which, however, the *spuma caustica* is only briefly mentioned in passing.

IN GLASS HOUSES.—"Chemists who write to newspapers hinting at breaches of the law on the part of fellow-craftsmen," writes a correspondent, "remind me of an old story. A generation or so ago one of the big men in a small town complained in the columns of the county journal that the local police were lax in dealing with offences committed by better-class people—for example, a policeman had been known to assist a drunken man home instead of doing his duty. A few weeks after, while returning from a convivial gathering, the big man himself was taken in charge!"

"SANITAS" DISINFECTANTS

FLUIDS, POWDERS, SOAPS & FUMIGATORS

Should be stocked by all Chemists.

THE "SANITAS" CO., Ltd., Limehouse, LONDON, E. 14.

BRITISH ABSOLUTE ALCOHOL

Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd.
LAMBETH, S.E. 11.

PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

58 Ludgate Hill, London, E.C. 4. REGINALD W. BARKER.

HARD SOAPS, TRIPLE MILLED TOILET
SOAPS, TRANSPARENT SOAPS, PARAFFIN
AND WAX CANDLES, NIGHT LIGHTS, Etc.

THE MILLBAY SOAP AND NEW PATENT CANDLE CO., LTD., PLYMOUTH,

Have a world-wide reputation for above.

WRITE DIRECT FOR PRICE LIST, or, for London and District, to
R. W. PHILLIPS,
Craven House, Kingsway, LONDON, W.C. 2. Tel.: Gerrard 1774

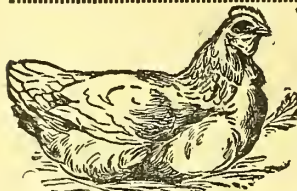
HYPOSOL LIMITED,
High Road, Wealdstone, Harrow.

AMPOULES

Capacity 5 c.c. to 50 c.c.

Made in Neutral Amber, Green, Mauve,
Blue and White Glass.

Phone: Harrow 600



WATER GLASS

Best value. Largest packers.

SEED DRESSING

Carbolised. Liquid. Our formulae
and labels. Sulph. Copper, &c.

TOMLINSON & HAYWARD, Ltd.
LINCOLN.

Essential Oils AND Aromatic Chemicals

W. NAUMANN, 40 Charterhouse Sq., London, E.C. 1.

British made and British owned.

CARAMEL

(Sacch. Ust.)

Buy from the Actual Manufacturers.

Lichtenstein & Co., Ltd.

(L. M. Lambert, Managing Director.)

Established in London, 1880.

Colne Works, Uxbridge, Middx.

FENNINGS' 50 YEARS' REPUTATION

Children's Powders

ADVERTISED EVERYWHERE. READY SALES.

ALFRED FENNINGS, COWES, I.W.

Fletcher's Concentrated Liquors

For over Forty Years have been in daily use by
progressive pharmacists in all parts of the world.

FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

Insurance Dispensing Terms.

THE time for active negotiation with the Ministry of Health (Insurance Section) regarding the terms for dispensing under the National Insurance Acts is approaching, and the fact that the doctors are busy getting out schemes of improved terms for Insurance medical services should be a reminder to the Local Associations Executive Committee, at its first meeting since the election, that this is the most urgent subject on the agenda. The medical men have been very successful in obtaining excellent terms for attendance on insured persons, but the doctors are by no means satisfied. It is suggested that the new capitation fee should be from 16s. 6d. to 17s. 6d., so as to make it equivalent to the pre-war fee of 7s. During the war the medical service in many cases has been of the most perfunctory character, but notwithstanding the deterioration in the service a war bonus of nearly a million pounds was granted to the doctors last year. If medical men can obtain such largely increased payments solely on the ground that the cost of living has risen, surely a chemist is entitled to as much, if not more, consideration than he has hitherto received at the hands of the National Health Insurance Commissioners. To compare the miserable professional fees of the chemist, payable only where actual work is done, with those of the medical man, who often gets paid for hundreds of patients he has never seen and whose names he may never have known until the conclusion of the year, is to show at once the disproportion in the remuneration. This is a matter urgently requiring adjustment by the negotiators appointed by panel chemists. Dealing first with England and Wales, our contention is that as a starting-point the dispensing fees should be doubled or trebled. The reason for this is that the terms under the new Drug Tariff turned out in practice to be no better than they were under the old tariff, even when taking into account the trivial war bonuses that have been wrung from the Commissioners. The remuneration being thus practically the same as chemists received before the war, there is a clear case for doubling the fees now that the purchasing power of the sovereign has depreciated to less than 10s. But there are

also to be taken into account the higher establishment charges. There is the larger outlay in drugs necessitated by the higher standard of prices ruling now, and we all know that the general rate of assistants' salaries has increased and has not reached its maximum. Such items as bottles, boxes, corks, and labels have doubled their pre-war cost. Taking these things into consideration we think panel chemists are quite justified in asking for the present dispensing fees to be trebled. We hope the Local Associations Executive Committee will aim at putting Insurance dispensing on a proper basis, now that the war difficulties in the way of preparing a case are over. It is an opportunity for correcting disabilities under which chemists labour in Insurance dispensing, and would be in the interests of insured persons. There is, for instance, the rural area question—a change in the Regulations—which has been shelved from time to time during the war. This is a matter wrapped up with the general question of dispensing doctors, upon which the Ministry of Health, in the interests of insured persons, should take up a strong attitude. Medical men are so handsomely paid for their services that their time should not be occupied with dispensing when another body of men, specially qualified, can do it much better. If dispensing by medical men (except in emergencies) were forbidden, doctors would be able to give their whole time to diagnosis and treatment and would thus give less cause to the complaints of Insurance patients that the attention many of them receive from doctors is of the most perfunctory character. The old grievance of "rep. mist." should also be considered. The practice of writing "rep. mist." is one which in the interests of the patient should be discouraged as much as possible. It should not be in the power of a medical man to cause the chemist to waste his time in hunting up past prescriptions and deciding whether the proper script has been discovered. If medical men cannot be compelled to discontinue entirely the practice of writing "rep. mist.," a special fee—say 6d.—should be payable to the chemist for the additional time spent in tracing such scripts. There are other minor grievances which we must leave for another time. Scotland has its own special problems in regard to Insurance dispensing terms owing to the fact that Scottish chemists were able to prevent the National Health Insurance Commissioners from imposing upon them the new Drug Tariff. The Scottish attitude has been proved to be the right one. Since 1913, however, the dispensing scale which was put before the Commissioners has become obsolete and will have to be doubled at least. We have no doubt but that Scotland is working out the problem with its own inimitable thoroughness. Scottish chemists have the advantage that those who conduct the negotiations with the Commissioners will be practically acquainted with the problems with which they are dealing. We hope that chemists will not be frightened by the "bogey" which Bloomsbury Square is bringing out in the shape of a threat that the Ministry of Health intends setting up Insurance dispensaries. There is no money available for such costly enterprises. Approved societies will never be put off with dispensing performed by unqualified persons, and, moreover, if such a threat is revealed the Labour party should be invoked at once to nip in the bud any such intention to degrade the pharmaceutical service at present given to insured persons.

Overseas Trade Organisation.

It will be remembered that a Committee was recently appointed by the Government to examine the question of Government machinery for dealing with trade and commerce. This Committee, presided over by Lord Cave, has now issued its report (Cmd. 319), containing several important recommendations, and including a Minority Report by Mr. F. Dudley-Docker, C.B. After agreeing that the control of raw materials should be transferred from the Ministry of Supply to the Board of Trade, the Committee devoted their special attention to two questions:

(1) The machinery for commercial purposes in foreign countries, and particularly to the Consular Service and Commercial Attaché Service.

(2) The organisation at home, and particularly the relations between the Foreign Office, the Board of Trade, and the Department of Overseas Trade.

The report first deals with the control of the Consular Service, and the decision reached is that this should remain under the Foreign Office, subject to the changes recommended in the organisation at home. The Committee consider that, although largely concerned in commercial questions, the Consul is essentially a diplomatic and political official, and that the Consular Service, in the words of Sir Auckland Geddes, one of the witnesses, "has so many functions in addition to trade that it would be quite wrong to put it under the Board of Trade." Further, it is argued that it would be eminently impracticable for officials appointed by the Foreign Office to be answerable to the Board of Trade for matters of commercial intelligence and the safeguarding of trade interests. Similarly, the necessity of having all British officials in foreign countries under the control of the Foreign Office leads the Committee to view with disfavour the proposal to attach permanent Trade and Labour Attachés to British Embassies. On the other hand, the report recommends that the Board of Trade should be represented on the Selection and Promotion Committees of the Consular and Commercial Diplomatic Services, and that special commercial missions, deputed by the Board of Trade and under the control of the Embassy or Legation concerned, should be sent abroad as occasion might arise. Regarding the future relations of the Foreign Office, the Board of Trade, and the Department of Overseas Trade, considerable opposition was presented to the proposal that the latter Department should be absorbed by the Board of Trade. It was urged in evidence given on behalf of the Federation of British Industries and of the Associated Chambers of Commerce that such an arrangement would be prejudicial to the best interests of commerce. Business people, it was pointed out, attached great importance to trade relations overseas being under the control of a Department which had power to bring diplomatic pressure to bear in support of them. It was precisely this diplomatic support that was required by traders at the present moment. It was also represented "that to divorce commercial from political work would be disastrous, and that traders must have direct access to the Foreign Office." The Foreign Office, in support of this opinion, suggested to the Committee that it should absorb the Department of Overseas Trade. The Committee was, however, unable to approve of this suggestion, and the Majority Report recommends that this Department shall remain, as at present, under the dual control of the Foreign Office and the Board of Trade, but that to promote more effective co-operation the Consular and Commercial Departments of the Foreign Office shall be transferred to the Department of Overseas Trade, and that the three Departments shall be housed in as close proximity to one another as possible, preferably in one building. In his Minority Report Mr. Dudley Docker is strongly against the present system of joint control of the Department of Overseas Trade. "Any system of dual control," he says, "must be eradicated." He maintains the view that the Foreign Office should be responsible for foreign commercial policy, and that the work of collecting and analysing commercial intelligence from foreign countries should be the duty of the Consular and Commercial Diplomatic Services. To strengthen the organisation of the Foreign Office for this purpose, he advocates the absorption by it of the Department of Overseas Trade and the "introduction of a commercial man of the highest calibre, who should be given a position only second to the Foreign Secretary." The Foreign Office thus constituted would submit its decisions on foreign trade policy to the Board of Trade to enable that Department to formulate the general trade policy of this country. In effect, the Minority Report considers that the eradication of dual control and the control of overseas commerce by the Foreign Office in a strengthened and "commercialised" form are the most effective means for the better control and expansion of British trade abroad. Mr. Docker concludes his report by suggesting that the "knowledge and experience of British commercial men in

foreign countries may be utilised by the British Missions in those countries. Conversely, the knowledge and experience of business men in this country of foreign trade should be similarly utilised by the Foreign Office." If any confirmation were needed of the statement that the Foreign Office and the Board of Trade have been at loggerheads for many years, it may be found in the following open confession contained in the report: "We endeavoured to obtain an agreement between the permanent officials of these two Departments whereby a point of contact should be secured without the interposition of the subsidiary Department of Overseas Trade, but without success." This suggests that some of the hoary permanent officials in their Whitehall dug-outs want scrapping to make way for men with new ideas. Such departmental jealousy is inimical to the best commercial interests of the country, and we have been given instances in which valuable trade information has been "held up" by one Department from another owing to intrigue and rivalry. During the war it was inevitable that international trading with certain neutrals should drift into the hands of bureaucracy, but now one feels inclined to echo Lord Fisher's dictum and *scrap the lot!*

Death of Sir Peter Squire.

By the death of Sir Peter Wyatt Squire this week, pharmacy loses one of its most distinguished practitioners and the only pharmaceutical chemist who has received the honour of knighthood solely on account of the practice of his profession. He had been for over fifty years chemist on the establishment of the Royal Family, and was knighted in June 1918. Sir Peter is best known to chemists and doctors from his association with "Squire's Companion to the British Pharmacopœia," for the production of which he had been responsible since 1877. The edition brought out in 1916 is a monument to the care bestowed on the "Companion," that book embodying a large amount of original work of great utility carried out in the author's laboratories at Oxford Street. We give the main facts of Sir Peter Squire's career in another part of this issue, but desire to take this opportunity to express our appreciation of the high services Sir Peter has rendered to pharmacy. He has always maintained at its highest level the work of dispensing, and has shown medical men and the public that the art of pharmacy, correctly carried on, is one of the highest occupations concerned with the welfare of the nation.

Sale of Malt Packets for Home-brewed Beer.

THE removal of the war-time restrictions on the manufacture and sale of malt has restored the opportunity of which many chemists may be glad to avail themselves, of selling malt in packets suitably prepared to persons who wish to use it for the making of home-brewed beer. The position of these brewers, who are generally known as private brewers, has, however, been altered by the Finance Act, 1919, which recently came into force. The Act very substantially increased the duty payable on beer, and, as was to be expected, it also increased the licence duty which has to be paid by such private brewers as are not liable to pay beer duty on the beer made by them. As the law now stands, from October 1 next, if a person is the occupier of a house of a value not exceeding 87. a year, he may obtain free of duty an Exeise licence to enable him between April 30 and August 31 to brew not more than two bushels of malt or its equivalent. The beer so brewed is exempt from beer duty, and must be for his own use in the course of his employment on harvest work. Where this concession does not apply, a private brewer who occupies a house of a value not exceeding 107. a year may brew beer for his own domestic use free of beer duty, but he is required to take out a licence, for which the annual charge is 17. 5s. If the house occupied by him is of an annual value exceeding 107., but not exceeding 157., he may also brew beer for his own domestic use free of beer duty, but in this case he has to take out a licence the annual charge for which is now 27. 10s. Where the private brewer does not come within these exemptions he must pay beer duty on the beer made by

him, but in that case the brewing licence he has to take out costs only 4s. a year. Beer duty as fixed by the Finance Act 1919 from May 1, 1919, is at the rate of 37. 10s. for every 36 gallons of worts at the standard gravity of 55°, and so in proportion for any difference in quantity or gravity. If the brewer uses a certain quantity of material, he is held to have made a certain quantity of beer, and is charged beer duty accordingly. Thus, 84 lb. of malt or undressed corn is taken to produce 36 gallons of beer at the standard gravity; and this is also the equivalent of 56 lb. of sugar or prepared corn, such as flaked maize or the like. In the case of grain sold in packets which is in any way prepared, it would therefore be important to know whether for the purposes of beer duty it is classifiable as malt or as sugar.

Politics and Pharmacy.

HITHERTO pharmacists, as a corporate body, have scarcely appeared in the arena of international politics, and therefore great interest has been aroused among Continental pharmacists at the step taken by the Nationale Pharmaceutique of Belgium. The council of this body recently took the rather unusual step of sending a telegram to the Belgian peace delegation in Paris with the following appeal:

The Nationale Pharmaceutique, representing nearly all the Belgian pharmacists, implores the plenipotentiaries to adhere rigidly to the minimum demands: free Scheldt, and Belgium to the sea, return of Dutch Limbourg to Belgium. Letter follows.

This incursion into the realms of international politics has aroused considerable resentment among Dutch pharmacists, and the Dutch Pharmaceutical Society reminds its Belgian *confrères* of the assistance Holland afforded to Belgian refugees in Holland during the war. It quotes the contents of a letter written by Prof. J. P. Remington shortly before his death:

The pharmacists of the Netherlands have had a most serious mission, and they are busily engaged in raising funds to keep a large number of refugees, Belgian and others, from starving. What greater work can be done for our fellow-craftsmen who have lost everything during the war?

This quotation is followed by the question: What would this worthy representative of pharmacy, have said had he lived to see the theft of country preached in a Belgian pharmaceutical journal? The latest development is that this step has affected so deeply the well-known Dutch pharmaceutical savant, Prof. Dr. H. Wefers Bettink, that he has written to the four Belgian pharmaceutical societies of which he was an honorary member to the effect that, in view of the attitude adopted by the Belgian pharmacists, it is impossible for him, as a Dutchman, to remain any longer a member of their associations. The cumulative effect of introducing politics into pharmacy may be gauged from the editorial comment in the "Pharmaceutisch Weekblad," prefacing the reproduction of an article by the editor of the "Journal de Pharmacie de Belgique." It reads as follows:

How fearfully foolish sounds the bungling attempt of M. Breugelmans to whitewash the thoughtless telegram and the laughable letter which we published in our last number. The following nonsensical political twaddle is published under the title "Tribune Professionnelle," and although it goes rather against the grain to waste any more of the valuable paper of our "Weekblad," we publish it in full.

It would be a pity if, after the past years of suffering, two of the most respected of the little nations of Europe should drift apart. We hope that the efforts of the representative pharmaceutical periodicals will be in the direction of forming friendships rather than in seeking enmities by engaging in the turmoil of international politics.

AN analysis of the occupations of students attending Burnley Technical School during the past session shows that twenty-four were apprentices or assistants to pharmacists in the town.

THE Early Closing Association has decided to oppose the provision of the Government's "Forty-eight Hours" Bill whereby members of families employed in their parents' shops are not to be treated as shop assistants.

Quinine as an Economic Weapon.

The monopoly of quinine in the hands of the Dutch East Indies proved to be a powerful factor in the conduct of the war. We are now able to give the story, so far as it can be told, of the measures taken to secure adequate supplies for the Allied Armies in all theatres of the war.

DURING the history of the blockade of Germany and the period of relative pressure brought to bear on the neutral nations in Europe, few have from time to time received more public censure than the diplomatic authorities in this country and abroad for the conduct of Allied economic policy towards the Netherlands. Nor was it until the general public began to discover for itself that nations, however small, and comparatively negligible from a military point of view, have weapons to employ other than those of a conventional kind, that such censure ceased to be levelled at the Foreign Office, at any rate by the more intellectual section of the business public. The discovery that economic power can, if skilfully employed, be made as effective an arm of defence or offence against outside aggression as that of navy or army is of more or less recent date. It is, however, an important discovery, and one which should occupy the attention of Governments in all countries, not to speak of all trade interests concerned, with a view to determining the length and breadth of its future possibilities.

Meanwhile, in order that the position as it now stands in regard to cinchona and quinine may be fully appreciated, it is of interest to give a brief summary of events which led up to the discovery in question. So far as the Foreign Office was concerned, Holland was from the first a complicated country to deal with under the inevitable pressure of the Allied blockade. In the first place, Holland's production of home-grown produce continued, notwithstanding war conditions, especially as regards certain articles, such as dairy produce, meat, vegetables, fruit, etc., to be far in advance of Dutch home requirements. This meant that, unless the necessary steps were taken by the Allied Governments to effect the contrary, nearly all, if not the whole, of Holland's surplus production would find its way into Germany. The difficulty, however, not to speak of the delicacy and tact required, of interfering in matters connected almost entirely with Holland's internal economic affairs was only too obvious. Nevertheless the Foreign Office was able to effect an economic agreement between the two countries, the result of which was to limit Holland's amount of home produce available for export to Germany to at least half of what it might have been.

In the second place, there was the question of Holland's colonial products—viz., tobacco, coffee, Banka tin, and last, but by no means least, cinchona, which during the early period of the blockade, at any rate, had been allowed free entry into the mother country. To render the pressure of the blockade upon Germany more effective still it was necessary to bring about by some means or other a curtailment of the passage to Holland of unlimited quantities of those goods. The problem was how to do it, and upon what grounds could the right to interfere be justified? Notwithstanding, however, the obvious difficulties of the situation, the Foreign Office rose to the occasion, and the Netherlands were in consequence prevailed upon to agree to ration importations from their colonies.

Shortly after this a new situation arose in the Allied economic world, which if it tended on the one hand to weigh heavily against the Dutch, on the other hand inclined to strengthen their hands in resisting the load of economic pressure brought to bear on them by the inevitable trend of events. Before very long, however, it was destined to go further still, and to awake in the Dutch, at any rate, a realisation of sudden and unmistakable power. America had entered the war, and the growing dependence of Allied countries upon Dutch home and colonial products was beginning to be felt more

vitality. But the climax of the situation was reached when it was found, to the consternation of all—and the desperation almost of one—of the Allied countries, that supplies of quinine in almost every theatre of war were gradually dwindling away. From Italy, France, England, Africa, India, Egypt, Palestine, Malta, Greece, and notably Mesopotamia (where already the shortage of medicinal supplies of all kinds had formed the subject of public inquiry), the cry for quinine went up with ever-increasing urgency. It was indeed a world-wide call, and it was imperative that, if the Allied cause was to be saved, there should be no delay in response. In England the shortage of such supplies was not nearly so bad as in France, but in Italy the position was so desperate as to give rise to almost a crisis. Whole battalions in the Italian army were being incapacitated for the want of this alkaloid; in fact, the Allied cause was in jeopardy. To add to the state of affairs, a world-wide scourge of influenza commenced to make a heavy demand upon the remaining supplies of quinine, and brought about a very serious situation, particularly in the United States.

To appreciate, therefore, the full extent of the crisis, which menaced with disaster not only the Allied armies in every theatre of the war, but the whole cause of humanity, it need only be reflected what the probable consequences would have been had it been impossible to come to terms with the Dutch; in fact, it is scarcely too much to admit that in their hands rested for a while the future destiny of the civilised world. The Dutch had only to withhold cinchona, to store up the bark in Java regardless of the question of profit or loss, to prohibit the export of its products, and the ravages of a world fever, which was already beginning to dissipate the ranks of the great Italian army, might have easily joined forces with the enemy to the ultimate triumph of the Prussian. Not that that could have happened without serious injury to the Dutch themselves; indeed, it is more than probable that in any catastrophe which might have resulted for the Allied world from Dutch refusal at the time to part with supplies of quinine, the Netherlands and the Netherlands East Indies would themselves have been reduced to a state of desolation. Such a contingency was rendered possible not only by the vital dependence of the Dutch East Indies for the feeding of her teeming populations on supplies of Burmese rice, but also by the no less vital dependence of the Netherlands upon Allied resources in coal and grain. At the same time, however, apart from possibilities, the facts as stated above all went to show that the hour of the Dutchman had come; that he was now in possession of an economic weapon of defence by means of which he could make himself felt among the nations, notwithstanding that, nationally speaking, he was powerless to interfere in the general upheaval of the world; and that, unless he was carefully handled, he would make use of this sudden acquisition of strength to defeat the purposes of those around him. The keynote to the situation was quinine, the monopoly of which was, and is still, in Dutch hands. From that moment until the end of the war, in so far as the blockade policy of the Associated Governments affected the Netherlands and the Dutch East Indies, the watchword of the Allies was quinine; in fact, it was unanimously agreed by all the Associated Governments that if a new general economic agreement was to be made with Holland, as then desired by the Government of that country, such an agreement could be reached only subject to the prior conclusion of a satisfactory agreement in regard to supplies of that drug. The result was, as everyone knows, the famous "War Agreement" of September 3, 1918, the effect of which was to secure for the Associated countries and their colonies practically the whole year's production of Java quinine on reasonable financial terms. On looking back it is difficult to understand now the comparative facility with which such an agreement was negotiated in the face of such enormous odds. In the first place, to form an agreement at all it had to be negotiated with one of the most powerful trade combinations in the world, and the fact that that combination was Dutch in no way tended to remove difficulties, since of all peoples the latter are especially renowned for their shrewdness and business

acumen. In the second place, the Netherlands East Indian Government and the Government of the mother country were beginning to realise only too clearly the value of the economic weapon which they possessed in the Dutch monopoly. It is the writer's honest conviction that to political circles in the Netherlands, at any rate, the news that a commercial contract had actually been concluded in London, under the form of the Agreement of September 3, 1918, came as an unwelcome surprise, almost in the nature of a shock. It is, of course, true that at that particular time the Netherlands Government were increasingly anxious to obtain a new joint general economic agreement with the Associated Governments of France, Italy, England, and America, and that they had small hopes of effecting any such new agreement unless supplies of quinine were freely forthcoming to Allied destinations. Nevertheless, one cannot help thinking that the Dutch were masters of the situation. In the first place, there already existed between the Netherlands and this country a general economic agreement to which both the French and the Italian Governments adhered; and, in the second place, it lay within Dutch power to withhold from the Allies an "aqua vitæ," so to speak, the immediate supply of which was vital to the successful prosecution of the war. Notwithstanding, however, the power of the great Dutch "combine" from whose hand the commercial contract, as such, had to be wrested, and the fact that quinine had risen to paramount proportions as an economic weapon in the view of the Netherlands Government, a contract was actually secured, and at the same time an agreement was signed between the Associated Governments and Holland whereunder the Netherlands Government were committed to an observance of the contract in question. Apart from all this, however, the negotiation of a contract so eminently satisfactory to the industry in Allied countries as that which was given effect to in the International Quinine Agreement of a year ago would, from the point of view of business alone, at any time and in any circumstances have been a remarkably clever piece of work. Negotiated as it was, however, at such a time, in such circumstances, and with such parties, it was, to say the least of it, a master-stroke of commercial strategy. In any case, it saved the situation and brought security to the Allied peoples. Moreover, so far as the negotiation of the contract itself was concerned, it was almost entirely the work of a single individual, Mr. H. S. Abrahamson, managing director of the Association of Quinine Manufacturers in Allied Countries, and the British Quinine Corporation, but who was at that time in the position of special adviser to his Majesty's Government on matters connected with quinine, and whose knowledge of the subject and technical experience of cinchona conditions in Java are recognised generally by the trade to be little short of prodigious. At the same time, credit to those to whom credit is due. The Foreign Office authorities in this country, without whose help Mr. Abrahamson could hardly have made the success which he did of his enterprise, had for some time been alive to the situation regarding quinine, and it is to their guidance through the difficult paths of diplomacy that the Associated countries as a whole owe part, if not all, the credit for the way in which the Netherlands Government were skilfully manoeuvred into an agreement which in all the circumstances of the case was scarcely in the best interests of the Dutch. In this connection, however, a word of commendation is due to the Netherlands Government itself. That Government, though it was true that it was pressed on all sides by other considerations of equal importance to it, in spite of what must have been highly distasteful on its part, demonstrated the traditional honour of the Dutch in adhering to their commercial obligations, and thus when it found that the contract had been properly agreed to by the Dutch and Allied parties concerned no longer hesitated to set its seal to the engagement. At the same time, it must not be forgotten that the Dutch Combine behaved all through in a manner which was distinctly favourable to the Allies. So much for the past. What is its lesson, and what is to be the keynote of the future?

Its lesson is clear. Quinine is an economic weapon in the hands of the Dutch East Indian and the Netherlands Governments. It is more than a mere drug. It is a power—a power which can be put to as good a use by wise and fair administrators as it can be put to an ill one by a bad and avaricious administration. There must be no mistake about that. While for the present we hope and believe that Dutch monopoly of quinine will not in the near future, at any rate, form the subject of political controversy between the Netherlands and any one of the so-called Associated countries, and that the trade generally will be left as hitherto to flow unmolested by scheming politicians along the normally, calm channels of commerce, yet the knowledge of all that cinchona stands for to-day as a power in the economic world should keep us alive to contingencies. We must be prepared for the blow when it falls, no matter how long we may be fortunate enough to have to wait for it. Great "combines," like Governments, are subject to constant change both in spirit and policy, and Governments at critical moments overrule the combinations of trade. It is as well, then, to realise facts, and above all the fact that cinchona is, for good or ill, an economic weapon of no mean importance in the hands of the Netherlands Government. That is a lesson in itself. In addition, events in the Great War have gone to prove, among other things, that neither in commerce nor diplomacy is it wise to rely upon methods which, although they have been successful in the past, carry with them no guarantee for the future. Apply that statement to cinchona and it requires only the most casual observer to see that its truth can be substantially maintained. The attitude exhibited in the past by both commerce and diplomacy towards the vital issues of the cinchona problem has been that of a general "trust to luck" policy in the face of a powerful monopoly. Fortunately for us and our Allies that policy was not unattended by success, but in the light of subsequent events it would appear safe to assert that good fortune alone extricated the Associated countries from a desperate state of affairs at a perilous crisis in history. So far as the British Empire is concerned it was indeed more a matter of chance than any pre-arranged policy of commerce that Allied trade interests in Java had any protection at all, while, as everyone should now be aware, it was a matter of coincidence that at a time when cinchona first entered the arena of international politics, the objective machinery necessary for effectively closing with the situation was already in operation in the Foreign Office. The Foreign Office, needless to say, has never been happily married to commerce. That, however, is not their fault nor the fault either of Foreign Office representative abroad. On the contrary, it is the writer's opinion that the fault lies in the conservative policy of this country in all matters connected with its foreign trade. Our greater business men, not to speak of our politicians, were, until the commencement of the war at any rate, as conservative in their ideas on the subject of British overseas commerce as they were liberal in their views regarding the necessity for industrial changes at home.

Unfortunately, however, one of the worst results of that conservatism has been, virtually speaking, to divorce diplomacy from commerce and to relegate the activities of the Foreign Office to a sphere of political intelligence almost entirely remote from that of commercial affairs. Nor, even if they would, has it been at all times open to the Foreign Office to descend from the habitation of the gods. In fact, whenever they have attempted to do so, they have been met on the one hand by the jealous disposition of the Board of Trade, and on the other hand by the hypercritical antagonism of business men. That such a state of affairs should nevertheless have been allowed to exist is only too clearly proved by events subsequent to the summer of 1914. For on the shoulders of the Foreign Office fell not only the weight of an international political crisis, but of a world-wide commercial and economic crisis as well. The man is that handicapped as it was from the first, managed to achieve what it did for Allied commerce and trade generally throughout the most terrible which the world has yet seen. To those who are behind the scenes, so to speak, the successful conduct of

Foreign Office in international economic affairs does not come as a surprise. Whatever may be alleged to the contrary, some of the finest brains in this country are to be found in those "unbusinesslike" precincts of Whitehall, and there can be no finer testimony to their ability than the admitted success with which they were applied to the blockade and all the various international, economic, commercial, and diplomatic complications arising out of the same. But, in addition to this, the Foreign Office carries with it not only an inherited prestige (of itself a valuable asset in the eyes of commerce), but also the full representation of his Majesty's Government abroad, a factor which is even more essential to the success of delicate and critical negotiations. Apart from generalities, however, that the Foreign Office should take a permanent interest in quinine affairs is eminently desirable from all points of view. It is not only conversant with the facts, but it has at its disposal a valuable store of experience in matters connected with cinchona, while the relations so far existing between it and the Association of Quinine Manufacturers in Allied countries have been of a notably cordial nature. Moreover, its officials should know what a powerful economic weapon is in the hands of the Netherlands Government, and should accordingly be in a position of no little advantage to British as well as Allied interests, for helping effectively to avoid the further crisis, which will inevitably arise, if at any time the Netherlands Government seek to take an unfair advantage of Dutch monopoly of control. At the same time, it should be clearly emphasised that diplomatic action should never be taken, except under extreme circumstances. It would be an obvious mistake to interfere with the flow of international commerce, and it might tend to ruin rather than to relieve the situation.

Meanwhile, what is to be the keynote of the future? In one word only, so far as the British and Allied quinine industry is concerned—co-operation. Co-operation is to present a formidable front to the world, to accumulate power, and to draw attention to the strength of one's cause. On the other hand, to exhibit at any time, especially in the face of a powerful trade monopoly, the least inclination to fall away is to play into the hands of disaster. Furthermore, unity and loyal co-operation on the part of the legitimate trade will not only make itself felt individually in each of the Allied countries concerned, but will go far to create a world-wide influence which neither diplomacy, however far removed from commerce, nor the foreign policy of other nations, can afford to ignore without serious reflections beforehand. Moreover, in view of past history, it is almost safe to assert that, had there been real substantial co-operation at the time, the "war" crisis in the economic annals of quinine would never have been experienced at all. And here may be reiterated what has been already suggested above, that luck, in the first instance, rather than forethought saved the situation for the Allies, and the fact that it so happened once is no criterion for the future. Not only have we grown wiser to the vital issues at stake in the immenser problems, as yet altogether unsolved, arising out of cinchona and its products, but the Dutch have grown wiser also, and, *what is more, the monopoly is in their hands.* Moreover, if—as it is reasonable to suppose—the next world-war, when it comes, will be a war of commerce rather than of arms, we shall do well to be prepared for contingencies. But the quinine industry in Allied countries must aim further still than at co-operation on a commercial basis alone. Indeed, its ultimate aim should be to widen and extend the scope of its combined influence, so that for the future, trade, too, has a voice in the administration of foreign affairs.

X. F. O. (25/48.)

LETHE IN A BOTTLE.—On being committed for trial at Bolton recently on a charge of breaking and entering, a shoemaker tried to exculpate himself by saying that he had drunk the contents of an 8-oz. bottle of medicine and had remembered nothing more. Whether he attributed blame to the prescriber or the dispenser is not stated.

British Association.

LAST week (p. 88) we gave selections from the papers that had been delivered at Bournemouth before the British Association up to Wednesday. The sectional meetings continued until September 12, the various addresses containing several further items of interests to our readers.

PLAGUE OF MARSH GRASS.

Sir Daniel Morris, in his presidential address to the Botanical Section, called attention to the phenomenal spread of a comparatively new marsh grass along the south coast of England. It travels with extraordinary vigour over mud flats, and has formed meadows to be measured by thousands of acres in the neighbourhood of Southampton Water and Poole Harbour. It might, he said, develop into a serious menace to navigable waters. On the other hand, it is a reclaiming agent and a possible source of paper-making material.

PESTS IN STORED GRAIN.

Professor A. Dendy, in the Zoology Section, read a paper on "Grain Pests and the Storage of Wheat." He pointed out that damage to the extent of between 10,000,000*l.* and 20,000,000*l.* is done annually to the world's wheat supply by insects, and during the war the damage was accentuated by the unfavourable conditions under which grain lay waiting shipment. What is wanted is some method of storage whereby the possibility of such losses would be averted. The construction of air-tight granaries is suggested as an engineering problem which, if carried out successfully, would completely overcome the difficulty of insect pests.

A NEW THEORY OF VISION.

Sir Oliver Lodge, speaking before the Mathematical and Physical Science Section, briefly outlined a "Possible Theory of Vision." A great deal, he said, is known about the ear, but little about the retina of the eye. Acoustic vibrations are of reasonable frequency, and mechanism can respond to them, but no mechanism can respond to the aetherial vibrations at the rate of five hundred million million per second. Something electrical and chemical is necessary. He suggested that in the retina of the eye—perhaps in the black pigment—there are certain atoms which are stimulated into radio-activity by impact with waves of light of luminous frequency, and that those atoms, when they receive the waves, accumulate energy of the right frequency, and stimulate the nerve. The eye is exceedingly sensitive to light, but not to any other kind of vibration. He would like an experiment to be made with the retina of an eye, if such experiment were possible with a dead eye. He would like to put the retina on an electroscope, then illuminate with red, green, or violet light, to see whether it would shoot off electrons and stimulate the electroscope. It would be a very delicate experiment, but there are very sensitive instruments available now.

HOW RACIAL CHARACTERISTICS MAY ARISE.

Professor Arthur Keith, in the Anthropological Section, discussed the origin of the racial types into which man is divided. He thought the glands of the body have an influence in this matter which has not hitherto been appreciated. There are five small glands which in recent times have come to be recognised as parts of the machinery which regulate the growth of the body. These are the pituitary body, about the size of a cherry, attached to the base of the brain and cradled in a pit of the skull; the pineal gland, also attached to the brain and little larger than a grain of wheat; the more bulky thyroid, set astride the windpipe in the neck; the two suprarenal bodies attached to the kidneys; the interstitial glands embedded in the substance of the genital glands. The growth of the body may be accelerated, retarded, or completely altered if one or more of these glands become the seat of a functional disorder. Alterations in the relative importance of these glands may well be the cause of the qualities that differentiate the three racial types of man. The thyroid gland has a special influence on the growth

of the skull and skeleton, and might account for the facial characteristics of the Mongolian face. The pituitary body is especially concerned in the differentiation of the European or Caucasian. The interstitial glands have also been concerned in the production of the robust manifestations of the male characters found conspicuously in the Caucasian type. In both Mongol and negro we find a beardless face and almost hairless body, characters associated with removal or degeneration of these glands.

PROGRESS IN GLASS-MAKING.

Dr. M. W. Travers contributed a paper on "Glass Manufacture at the End of the War." The war has left the glass factories of this country at a disadvantage compared with Germany. Such research as has been carried out in this country during the war has aimed rather at the solution of problems arising out of the need for producing goods previously imported, and it was difficult to lay hands on a really original discovery in connection with glass. At the moment special interest attaches to certain branches of the industry which are scheduled for protection in accordance with the new trade policy. These are optical glass, including lenses, prisms, and like optical devices, scientific glassware, and illuminating glassware. The country is now practically self-supporting with regard to the manufacture of scientific hollowware, which includes resistance glassware such as beakers and flasks, and heavy hollowware, such as desiccators and aspirators, and it is hoped that the labours of the Standardisation Committee of the Society of Chemical Industry, which aimed at the standardisation of chemical apparatus, have been of value to the industry. The output of lamp-blown apparatus and of graduated apparatus has increased enormously, but this branch of the industry will probably meet with keen competition, particularly for the supply of such articles as test-tubes, which require cheap labour such as is available in Central Europe and Japan. The scientific public, critical of home-made goods, have suddenly awakened to the fact that much of the imported graduated ware was very inaccurate and are insisting on a higher quality of goods, which the British manufacturers have succeeded in supplying.

AMMONIUM NITRATE.

In a paper by Lieut.-Colonel C. D. Crozier, dealing with the manufacture of high explosives, details were given of the manufacture of ammonium nitrate by a new process. Owing to the great demand for high explosives it was found necessary to devise means for making the trinitrotoluol go further, and this was effected through the agency of ammonium nitrate, the mixture of these two being known as amatol. In all, 378,395 tons of ammonium nitrate was provided. The simple method of mixing nitric acid and ammonia to make ammonium nitrate was insufficient to supply the huge war consumption, as less nitric acid than ever was available. Here Brunner, Mond & Co., Ltd., came to the rescue, and undertook the manufacture of ammonium nitrate in nine large installations in England. At first it was made from Norwegian nitrate of lime, but the supplies of this were inadequate, and Brunner, Mond & Co. adapted plant at their Lostock works to make ammonium nitrate directly from sodium nitrate by reaction with ammonium bicarbonate, a process of great complexity and difficulty, the chemical equilibria involved being most delicate. More ammonium nitrate being needed, it was decided to make calcium nitrate at home. The raw material was at hand in the form of calcium chloride, a waste product of the ammonia-soda process. The large Victoria Works at Wincham, Cheshire, were designed and built to supply the demands for this calcium nitrate, and Lostock, where the conversion took place, had to be enlarged to deal with these large supplies. All this time, in spite of what had already been done, a long and difficult laboratory investigation was being carried out by Brunner, Mond & Co.'s research staff, and they worked out an entirely new process for the direct preparation of ammonium nitrate from ammonium sulphate and sodium nitrate. This new sulphate-nitrate process was put into operation

first at the company's Sandbach works. It proved very successful, and a large plant was erected at Swindon from the experience gained at Sandbach. Ammonium perchlorate was made by the United Alkali Co., Ltd.

CHEMICAL WARFARE.

Brigadier-General Harold Hartley gave an account of the work of British chemists in connection with gas warfare. Gas attacks are made in two ways—(a) in clouds, and (b) by projectiles. In the first attack in 1915 a great opportunity was missed by the Germans owing to the use of gas in low concentration and in small quantities, and even then the Germans failed to exploit the partial success gained in these attacks. The British then formed a special brigade, consisting of specially enlisted chemists, and from the formation of that brigade there were liberated in France about 5,700 tons of gas, 25 per cent. in the form of cylinder or cloud attacks, and the remainder in the form of projectiles. Development, both on the part of the Allies and the Germans, was then rapid. The German effort was directed to using little known organic compounds, hundreds of tons of complex organic derivatives, previously only prepared once or twice in a laboratory, being utilised. In 1916, chloromethylchloroformate, with toxic properties similar to phosgene, was introduced. Later this was replaced by the trichloro compound, which was used until the end of the war as the well-known "Green Cross" shell-filling. Phosgene was also introduced in trench-mortar bombs. In July 1917 mustard gas made its appearance. In the preparation for the attack in March 1918, 90 per cent. of the enemy ammunition contained gas; it was never before used on such a scale, and from then until the end of the war both defensive and offensive operations were carried on by the aid of gas shells to a very considerable extent. In April 1915 we had only one plant producing liquid chlorine, with an output of 7 tons per week, but the energy of manufacturers enabled the first gas attacks to be made in September 1915, and by December 31,800 tons of gas had gone to France. Production increased steadily from that date, the weekly output being: 1915, 860 tons; 1916, 5,750 tons; 1917, 18,500 tons; 1918 (ten months), 15,500 tons. This, considering our unpreparedness, was a very satisfactory result. More important even than offence was the means of defence against gas attacks, and it is difficult to over-estimate the value of the work of the anti-gas department, under the leadership first of Sir William Horrocks, and later of Lieut.-Colonel E. F. Harrison. The latter gathered under him an enthusiastic group of young chemists and physicists, and the box respirator represented the joint results of their researches, carried out under his inspiration and controlled by his practical judgment. He organised its manufacture on a huge scale, and it was a great testimony to his foresight and ability that, in spite of difficulties of production, supplies promised to France never failed. Altogether 55,000,000 respirators were produced by the department, and of these 19,000,000 were box respirators. The author concluded by stating his opinion that had the enemy foreseen the results of his treachery in introducing this new weapon in April 1915 it would never have been employed. As it was, it provided another example of the German lack of foresight and their under-estimate of their opponents, which might have delayed a decision, but only to make it the more complete and crushing in the end.

The next meeting of the Association is to take place at Cardiff in 1920.

SYNONYMS.—One of the stories in Admiral Bacon's series of articles in the "Daily Telegraph" on the Dover Patrol has a special interest for retail pharmacists, some of whom could easily quote parallels from their own experience. An irate medical officer one day visited a trawler in harbour to inquire why a certain member of the crew had not been landed and sent to hospital. It turned out that the procession had started, but had been sent back by the police authorities. "But did you not signal, as I told you, to the depot, and tell them it was only a case of rheumatism?" asked the mystified doctor of the captain. "Yes, we did," was the reply, "but neither me nor the signalman knew how to spell 'rheumatism,' so we called it 'small-pox.'"

Pharmaceutical Society of Ireland.

Council-meeting.

THE monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on September 9, Mr. James Michie, President, in the chair. The following members of the Council were also present: Messrs. J. E. Connor, J.P. (Vice-President); G. D. Beggs, J.P. (Hon. Treasurer); W. F. Wells; James Tate; Charles E. Digges; H. Lancashire, J.P.; R. Blair; Thomas N. Moffitt; John Smith; G. A. McLean Lee; Victor E. Hanna; Dr. J. A. Walsh; and Dr. A. J. Barnes.

Mr. A. Owen Wells and Mr. D. M. Watson sent apologies for absence.

RECENT PROSECUTIONS.

The Registrar read a letter from A. and J. Robinson, solicitors, reporting that Hamilton & Co. (Swinford), Ltd., had been fined 10s., with 1l. costs, for keeping open shop for compounding medical prescriptions without a qualified manager. The Registrar also read a letter from Messrs. Robinson reporting that Fitzpatrick & Co., Ltd., Sligo, had been fined 15s., with 6s. costs, for a similar offence.

Comment was made on the smallness of the fines imposed in these cases, and it was decided to communicate with the Council's solicitors with a view to forwarding a statement in reference to the matter to the Lord Lieutenant.

Messrs. Robinson also reported that Mr. W. P. Kennedy, Ph.C., had been fined 18l., with 1l. costs, for not replying to a statutory letter sent to him by the Registrar.

The Registrar submitted a letter from the Under-Secretary, Dublin Castle, transmitting a copy of a memorial from Mr. Kennedy asking for a reduction of the fine.

It was decided to send the letter to the Council's solicitors in order that they might draft a reply. Approval was expressed of the action of Sergeant Conway, Royal Irish Constabulary, who had given evidence for the prosecution in Mr. Kennedy's case, and it was decided to draw the attention of the Inspector-General to it.

PRELIMINARY REGISTRATION.

Mr. R. H. Callan and Mr. B. McCarthy, who submitted Intermediate Board certificates, were admitted to Preliminary registration.

DEATHS.

Mr. D. N. Stewart, M.P.S.I., wrote reporting the death of Dr. Henry Taaffe, Ph.C.

Mr. W. H. Baskin, F.S.A.A., wrote reporting the death of Mr. W. H. C. Baskin, Ph.C.

The Registrar reported that a registered letter addressed to Mr. Francis P. Murray, Ph.C., Oldcastle, co. Meath, had been returned marked "Deceased." He also reported the death of Mr. James Kitch, J.P., M.P.S.I.

SCRUTINEERS OF THE BALLOT.

Mr. G. A. McLean Lee and Mr. A. Owen Wells were appointed scrutineers of the ballot for the annual elections.

Mr. Lancashire asked to be informed of the procedure adopted in carrying out the scrutiny of the ballot, with a view of ascertaining whether it was conducted in such a way as to avoid the disclosure of how individual votes are cast.

Having heard statements made by members of the Council on the subject, Mr. Lancashire expressed himself satisfied.

EXAMINERS' REPORTS.

The Registrar submitted reports from the examiners upon the Preliminary, Pharmaceutical Licence, Pharmaceutical Assistant and Registered Druggist examinations. It appeared that forty candidates presented themselves

for the Preliminary examination, of whom twenty-one passed, that seventeen of the forty candidates were ladies, of whom ten passed, and that the only honours were obtained by a lady. Thirty-three candidates presented themselves for the Pharmaceutical Licence examination, of whom eighteen passed, two with honours. No gold medal was awarded. Four candidates presented themselves for the Pharmaceutical Assistant examination, and three passed. For the Registered Druggist examination six candidates presented themselves, of whom three passed.

Reports from the Law Committee and the House Committee were considered and adopted.

ELECTIONS AND NOMINATIONS.

The following were elected as members:

Mr. P. J. D'Arcy, Ph.C., The Tipperary Pharmacy, D'Arcy's Corner, Tipperary.

Mr. G. P. Davis, Ph.C., The Medical Hall, 37 Park Street, Dundalk.

Mr. D. Flynn, Ph.C., The Fermoy Pharmacy, Patrick Street, Fermoy.

Mr. J. Gubbins, Ph.C., Ballyearrane, Emly, co. Tipperary.

Mr. P. J. Hallahan, Ph.C., The Medical Hall, The Square, Dungarvan, co. Waterford.

Mr. J. M. Huban, Ph.C., 17 and 19 O'Connell Street, Athlone.

Mr. W. F. Kirby, Ph.C., Cooper's Medical Hall, North Main Street, Wexford.

Mr. James Maxwell, Ph.C., Iona, 3 Kingsmere Avenue, Belfast.

Miss B. F. Meehan, Ph.C., Macken, Leitrim.

Mr. G. H. Miller, Ph.C., Fernbank, Effra Road, Rathmines, co. Dublin.

Mr. E. Montague, Ph.C., 11 Morchampton Terrace, Donnybrook, co. Dublin.

Mr. J. M. Wadsworth, Ph.C., Kilcorig House, Magheragall, Lisburn.

Mr. T. McBurnie, chemist and druggist, 32 High Street, Newtownards, was elected an Associate Druggist.

The following were nominated as members:

Mr. J. M. Burke, Ph.C., 8 Cambridge Terrace, Dartmouth Square, Dublin; Mr. R. J. Carter, Ph.C., Clontarf Pharmacy, Fairview, Dublin; Mr. A. L. Casey, Ph.C., Garrison, Bolleek, co. Fermanagh; Mr. T. Costelloe, Ph.C., Castleisland, co. Kerry; Mr. C. Doorly, Ph.C., The Medical Hall, Roscommon; Mr. P. Gleeson, Ph.C., The Medical Hall, Main Street, Bruff, co. Limerick; Mr. J. R. Moloney, Ph.C., The Medical Hall, Castlecomer, co. Kilkenny; Mr. R. Morrow, Ph.C., 59 South Street, Newtownards; Mr. J. T. O'Sullivan, Ph.C., O'Sullivan's Pharmacy, 105 Old George's Street, Cork; and Mr. James Frederick Addey, Ph.C., Main Street Pharmacy, Bangor, co. Down, was nominated for membership.

The following were nominated as Associate Druggists:

Mr. T. J. Doyle, R.D., Rosedene, Malahide Road, Clontarf, Dublin; Mr. J. L. Duane, R.D., 151 Emmet Road, Inchicore, Dublin; Mr. G. A. Elliott, R.D., Convoy, co. Donegal; and Mr. F. J. Molyneux, R.D., Derrinduffe, Duagh, Kilmorna, co. Kerry.

SEALING OF PHARMACEUTICAL LICENCES.

The pharmaceutical licences of the following were directed to be sealed:

J. P. Bourke, C. F. Boyers, D. C. Breen, J. M. Burke, G. B. Busby, A. L. Casey, J. J. Cooney, T. Costelloe, J. P. Daly, E. Egan, D. J. O'Connor, H. Weiner, and J. H. White.

CHANGES OF ADDRESS.

Communications were received notifying changes in the addresses of the following:

Mrs. Margaret Perrot McDade (*née* Perrot), to 180 Connorsbrook Avenue, Belfast, on the occasion of her marriage.

Mr. Richard Geo. Chism, Ph.C., to 11A Wellington Park Avenue, Belfast.

Mr. J. S. Gilbert, Ph.C., to 14 Thorndale Avenue, Belfast.

Private M. Greenbat, Ph.C., to Group 5, Clearing House, Crystal Palace, London, S.E.

Mr. P. Kieran, Ph.C., to Ballinamore, co. Leitrim.

Mr. H. E. Grimshaw, Ph.C., to Jagersfontein, Orange Free State, South Africa.

Miss Margaret Kingston, Ph.C., to 143 New Bond Street, London.

Mr. C. F. Kirwan, Ph.C., to Lion House, 11 Warrington Place, Dublin.

Mr. Thomas W. McMurray, Ph.C., to 38 Station Road, Kings Norton, Birmingham.

Mr. Thomas M. O'Connor, Ph.C., to 6 Quinsboro Road, Bray, co. Wicklow.

Mr. Joseph Reynolds, Ph.C., to 181 Cliftonville Road, Belfast.

Mr. John S. Robinson, Ph.C., to 44 Rialto Cottages, Dolphin's Barn, Dublin.

Mr. James A. Stewart, Ph.C., to Lucerne, Ravenhill Park, Belfast.

Mr. James Stirling, Ph.C., to Victoria Pharmacy, The Square, Dromore, co. Down.

Mr. Robert Taylor, Ph.C., to 30 Claude Road, Whitworth Road, Dublin.

Miss Emily Warren, Ph.C., to 31 The Common, Woolwich.

Mr. J. B. D. Waugh, Ph.C., to 2 Alpine Villas, Limerick.

Mr. Henry Robert Warren, Ph.C., to 28 Plumstead Common Road, London, S.E.

Mr. Richard A. L. Wilson, Ph.C., to Medical Hall, Swinford, co. Mayo.

Mr. Arthur P. Wallace, Ph.C., to The Medical Hall and Pharmacy, 28 William Street, Galway.

Mr. J. Selkirk, chemist and druggist, to 28 Avondale Place, Glenogle Road, Edinburgh.

Mr. Wm. A. McAloney, R.D., to c/o Elliott, Thompson & Blair, 12 and 14 Corporation Street, Belfast.

Mr. Willoughby C. Adams, R.D., to c/o Adams & Anderson, 28 Waring Street, Belfast.

Mr. Andrew Bonar, R.D., to 45 Saxony Road, Kensington, Liverpool.

Mr. Samuel Carson, R.D., to 76 Upper Newtownards Road, Belfast.

Mr. E. J. Clancy, R.D., to c/o Mr. Kiernan, 86 Thomas Street, Dublin.

Mr. John Clarke, R.D., to 15 Upper Crescent, Belfast.

Mr. William Clarke, R.D., to 69 South Parade, Belfast.

Mr. W. J. Darby, R.D., to 47 Haddington Gardens and 71 and 73 King Street, Belfast.

Mr. John B. A. Fletcher, R.D., to 17 Northland Avenue, Derry.

Mr. Peter M. Henry, R.D., to 15 William Street, Sligo.

Mr. Lionel Firth, R.D., to 35 Bridge End, Belfast.

Mr. David D. Kell, R.D., to 85 Academy Street, Belfast.

Mr. James P. McGrath, R.D., to Medical Hall, Loughrea.

Mr. J. Morrow, R.D., to Deville, Alberta, Canada.

Mr. J. L. Parkinson, R.D., to 14 Westminster Street, Belfast.

Mr. Robert D. Sweeney, R.D., to "Ardsillan," Oldpark Road, Belfast.

Mr. Edwin Wheeler, R.D., to 155 Upper Newtownards Road, Belfast.

Mr. Samuel M. Reid, R.D., to 5 Eglantine Gardens, Malone Road, Belfast.

Mr. James Herring, R.D., to 64a Chapel Street, Devonport, Devon.

Organising the Drug-trade.

N.A.C.A. Meetings.

A MEETING of the Bristol branch of the National Association of Chemists' Assistants was held on September 11, Mr. Reed (vice-chairman) in the chair. Mr. Cope was appointed treasurer in place of Mr. Rees. It was decided to hold meetings of an educational and social character in alternate months during the winter, and a committee, under the chairmanship of Mr. Sergant, was formed. Methods of obtaining members were discussed, and several ladies and gentlemen volunteered to visit pharmacists in their districts and interview the assistants. It was decided to support the Government's "Forty-eight-hours" Bill. The next meeting will be held on October 9.

On September 16 a successful meeting of the Bath branch was held at the Y.M.C.A. Hall, Bath. Officers for the session were elected and local rules adopted. It was decided to hold meetings every month, and there appears to be a keen desire also to promote the social side of the Association. Chemists' assistants in the area are invited to communicate with the Secretary, Mr. C. W. Walwin, 6 Lambridge, Bath. The next meeting will be held on September 30.

Drug Union Meeting.

A MEETING of the Bradford branch of the Amalgamated Society of Pharmacists, Drug, and Chemical Workers was held on September 15 under the chairmanship of Mr. J.

Batley. Mr. Britton (hon. secretary) is about to leave the city to study for his examination, and in his place Mr. Batley was appointed. Mr. Ingham was elected treasurer, in succession to Mr. J. Stanley. It is expected that Mr. Skinner (president of the Union) will address a meeting of the branch in October, and that occasion it is hoped will give the movement a fillip. A deputation, appointed to inquire into the possibility of better facilities for the training in pharmacy of discharged sailors and soldiers, at the Bradford Technical College, reported that the college has not applied for registration under the national scheme. The deputation was left to carry the matter forward.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackburn.—At a recent meeting of the Insurance Committee an inquiry was received from the National Civic Federation of America (representing the interests of employers and employed) requesting the opinion of the Blackburn Committee on thirty-seven questions dealing with the administration of the National Insurance Act. The request was not granted.

Cheshire.—The Pharmaceutical Committee met in Manchester on September 10, when the following appointments were made: *Chairman*, Mr. J. W. Deakin, J.P. *Vice-Chairman*, Mr. Hugh W. Wallis. *Secretary*, Mr. Scanton. Messrs. Deakin, Wallis, and Cumming were appointed as representatives on the Sub-Services Committee, and the following were elected as delegates to the next Local Associations Executive Conference: Messrs. Wallis, Cummin, Watkinson, and the Secretary. Mr. Wilde (late of Hyde) was co-opted to fill the vacancy on the Committee.

Manchester.—At a meeting of the Pharmaceutical Committee held on September 10, the Secretary intimated that the following had been elected to the Committee: Messrs. Bates, Beal, Cleworth, Dickson, Eastwood, Hershberg, Kidd, Nidd, Coates, Balshaw, and Capper. The following officers were appointed: *Chairman*, Mr. F. W. Bates, J.P.; *Vice-Chairman*, Mr. J. H. Nidd; *Treasurer*, Mr. J. Bell; *Hon. Secretary*, Mr. A. Hershberg. *Auditors*: Messrs. J. Cleworth and T. H. Coates, and Messrs. G. H. Haines and J. W. Bygott. Mr. J. H. Nidd was elected as representative on the Insurance Committee, and Messrs. Bates, Nidd, and Hershberg as representatives on the Pharmaceutical Service Sub-Committee.

Worcestershire.—A meeting of the Pharmaceutical Committee was held recently, at which the accounts for the year were passed. Receipts represented a levy of 0.73 per cent. on 7,116l. 16s. 2d., chemists' accounts for the year, and expenditure amounting to 52l. 9s. 2d. A letter from Mr. D. G. Pout, stating that he could not continue his secretarial work owing to eye trouble, was read. Mr. Price suggested that Mr. Pout obtain the services of a clerk, and that the expenses be paid by the Committee. This was unanimously agreed to. The officers for the ensuing year were then elected, as follows: *Chairman*, Mr. W. Corbett; *Vice-Chairman*, Mr. A. S. Price; *Secretary*, Mr. D. G. Pout; *Pharmaceutical Services Sub-Committee*, Messrs. Corbett, Gedge, and Harris; *Pharmaceutical Members of Joint Services Sub-Committee*, Messrs. Corbett and Gedge. Reports on the checking from December 1918 to March 1919 showed an average error for the period of 0.05 per cent.

Preston.—At a meeting of the Insurance Committee, held on September 10, Mr. Wilson (Chairman of the Medical Benefit Sub-Committee) referred to the impression prevailing among certain insured persons that "panel medicine was no good." This is entirely erroneous, and the Committee wished the public to know that the prescriptions given by a panel doctor are equal to those intended for private patients.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Sept. 18, 10 a.m.

BUSINESS in the fine chemical and drug markets is by no means brisk, and comparatively few changes are recorded. Among crude drugs, Tinnevely senna shows a sharp advance, likewise native-Jamaica sarsaparilla; the auction next week will test the market. Senega remains very firm; cascara sagrada is cheaper, a large quantity having been imported; calumba has also arrived freely, but good quality is not too plentiful, the bulk of the stock being ordinary sorts. Ipecacuanha remains firm, and Turkey opium is in rather more demand; Smyrna reported a fair business. Among essential oils, clove tends dearer, following the spice; lemon, bergamot, and star anise are a trifle easier. Japanese oil of mint is rather firmer, and saffrol is higher. Seeds are quiet generally, canary being steady, coriander easier, and caraway and fenugreek lower. The few changes in pharmaceutical chemicals comprise a weaker market for citric acid; tartaric acid is firmer, and cream of tartar is irregular but dearer on sudden scarcity and more demand. Saccharin, which has had an easy undertone for several weeks past, has now hardened, but export price is higher owing to the large demand. Rather higher rates are asked in some quarters for amidopyrin, hydroquinone, and resorcin. Hexamine and lithium carbonate are a trifle cheaper, likewise bromide of potash; vanillin is now in better supply. Spices have been much more active, pepper and cloves being dearer. Shellac has been quieter, but towards the close shows more activity at rising prices. Farina and agar-agar have tended in buyers' favour. Linseed oil is much cheaper.

Higher	Firmer	Easier	Lower
Amidopyrin	Arsenic	Bergamot oil	Agar-agar
Cloves	Mace	Citric acid	Caraway-seed
Cream of tartar	Pepper	Coriander seed	Cascara
Hydroquinone	Quicksilver	Farina (Jp.)	sagrada
Nutmegs	Saccharin	Lemon oil	Fenugreek-seed
Resorcin	Tartaric acid	Wax, veget.	Hen-yolk
Saffrol		(Jp.)	Hexamine
Saffron			Linseed
Sarsaparilla			Linseed oil
(Native-Jam.)			Lithia
Senna (Tinn.)			carbonate
			Palm oil
			Pepsins
			Turpentine

The drug-auctions will be held next Thursday, September 25.

Cablegram.

NEW YORK, September 17.—Business in drugs is fair. Menthol is 10 cents per lb. dearer at \$8.10 per lb., and Mexican sarsaparilla has advanced to 50 cents per lb.

ACETANILIDE is offered at 2s. 8d. to 2s. 9d. per lb. on the spot for crystals and powder.

AGAR-AGAR is quiet and easier, with sellers of No. 1 Kobe strip at 2s. 9d. per lb. on the spot and No. 2 Yokohama at 2s. 6d.

ALBUMEN.—Chinese egg is quiet at 5s. per lb. on the spot, afloat is 4s. 11d., and July-September shipment 4s. 10½d. c.i.f.

AMMONIA SULPHATE.—Home trade price for 24½ per cent. is 19½. 10s. per ton f.o.r. to September 30. Prices for later dates have been fixed as follows: October, 20½. 10s.; Novem-

ber, 20½. 15s.; December, 21½.; January, 1920, 21½. 7s. 6d.; February, 21½. 15s.; and March-April, 22½. per ton.

ANISE is unchanged at 80s. per cwt. for Russian and Spanish.

ANISE OIL, STAR, is quiet, the spot value of "Red Ship" brand being 5s. 1½d. per lb.

ANTIMONY.—As suggested last week, the Government stocks during last month were encroached upon, the decrease disclosed by the official returns issued late last week being over 1,000 tons to 3,386 tons for regulus. This is the first big decrease shown since the Government started issuing the returns. The market is undoubtedly firm at the recent advance at 45½. per ton and upward. There is practically nothing afloat from the Far East, and dealers here have no stock, so that consumers' needs are being filled out of Government metal. China is virtually not offering either refined or crude at present. The market in the latter is quite nominal. It is reported from New York that Chinese houses refuse to entertain business at the current rates of about 8½ cents for refined.

ARSENIC.—The tone is somewhat firmer, only very moderate quantities being offered, but dealers in the provincial markets are still offering rather cheaply compared with the terms quoted by importers here either for Australian or Grecian at about 58½., and even more. From about 58½. to 60½. represents a fair value for white Cornish powder. In the case of Grecian, which is chiefly produced as a by-product, business is difficult owing to the rate of exchange.

BERGAMOT OIL is a trifle easier at from 18s. to 18s. 6d. per lb. on the spot.

BISMUTH.—Although the market has remained unchanged and practically under control, with the price of metal at 12s. 6d. per lb., the tendency in America is still downwards at \$2.95 per lb.

BROMIDES.—Potash if anything is easier inclined, with spot sales of granular or crystals at 3s. 9d. to 4s. per lb.; soda is 2s. 8d. to 2s. 9d., and ammon. 3s. to 3s. 2d., as to seller.

CADMIUM is steady but quiet at 6s. 6d. to 7s. per lb.

CALUMBA.—The York Castle from Mozambique has brought 3,228 bags.

CAMPHOR (REFINED) remains firm, with spot sales of 2½-lb. Japanese slabs at 14s. 6d. per lb. and sellers; 1-oz. tablets are worth 15s. 6d. and ¼-oz. 15s. 9d., and with continued scarcity English refiners sell to regular customers only.

CANARY-SEED is steady at 160s. to 165s. per quarter for fair to good Morocco.

CAPSICUMS.—At auction 41 bags Nyasaland sold at 42s. 6d. to 44s. for fair to good reddish off-stalk.

CARAWAY-SEED is lower at about 60s. per cwt. for fair Dutch on the spot, with offers at about 50s. c.i.f. terms for shipment from Holland.

CARBOLIC ACID remains firm at from 9½d. to 9½d. per lb. for 39° to 40° C. ice crystals in large bulk packing and in large quantities.

CASCARA SAGRADA.—The Saxonia has brought 2,751 bags from New York. Spot prices are cheaper, fair offering at 110s. per cwt.

CHILLIES.—At auction 118 bags Nyasaland offered and 70 sold at 50s. for dull yellowish and 55s. to 63s. for fair to good reddish.

CINCHONA.—At Amsterdam on October 2 an auction of pharmaceutical bark will be held, when 334 cases Succirubra, weighing 19,175 kilos., will be offered. The first-hand stock at Amsterdam on September 11 consisted of 754 packages.

CITRIC ACID is slightly easier, offering at 4s. 3d. per lb. on the spot.

CLOVES are dearer, with spot sales of fair Zanzibar at from 1s. 9d. to 1s. 10½d. per lb. The London stock of Zanzibar is 12,233 bales, against 10,825 bales.

COCA-LEAVES.—At auction at Amsterdam on October 2, 656 bales Java, weighing 36,660 kilos., will be offered. The first-hand stock of coca at Amsterdam on September 11 consisted of 666 packages.

COPPER SULPHATE.—There is no improvement in export business, some makers remaining rather keen sellers at 40½. per ton f.o.b. Liverpool in casks. Exchange difficulties and keen competition, with considerable surplus stocks, tend to keep foreign-buyers out of the market. This state of affairs was clearly reflected in last month's exports from Britain, which were only 161 tons, against 2,495 tons for August last year. The total for eight months at 29,295 tons shows, as compared with the same period last year, a decrease of 6,220 tons.

CORIANDER-SEED.—Some sales have been made at 24s. per cwt. for fair Morocco, being easier.

CREAM OF TARTAR.—With a good inquiry and sudden scarcity for prompt delivery holders are asking the higher rates of from 250s. to 255s. per cwt. for 99 to 100 per cent. powder. Most of the cheap lots offering at below these prices have been disposed of.

CUMIN-SEED is steady at 50s. per cwt. for good sifted Morocco.

DILL-SEED is quoted 22s. 6d. to 25s. per cwt. for East India.

ERGOT.—In the absence of adequate supplies the spot value is nominal at 15s. per lb.

FARINA is quiet and easier, with spot sellers of No. 1 Japanese at 45s. per cwt. and September-November shipment at 41s. 6d. c.i.f. *Sweet* on the spot is cheaper at 36s. 6d.

FENNEL-SEED is quiet at 36s. to 37s. per cwt.

FENUGREEK-SEED is lower at 16s. per cwt. for Morocco on the spot and at 15s. c.i.f. terms for shipment.

GINGER.—At auction 504 bags offered and 24 sold at 70s. for fair small to bold washed wormy Cochin.

HEN-YOLK is dull of sale and lower, Chinese 2-per-cent. lorio acid offering at 167s. 6d. per cwt. on the spot, afloat at 160s., and July-September shipment at 150s. c.i.f. Dried yolk on the spot is 2s. per lb. and July-September shipment 1s. 9d. c.i.f.

HEXAMINE is slightly easier at 5s. 6d. per lb. on the spot.

LAVENDER OIL.—The position remains much as given last week, with importers offering the new French distillate at from 55s. per lb. upwards, ex warehouse.

LEMON OIL is easier at from 4s. 9d. to 4s. 10½d. per lb. on the spot. A Sicilian advice dated September 12 states that: "Although business continues to be very slack, still, as far as quotations in Italian currency are concerned, there is a slight improvement in prices. It seems that most of the parcels whose holders were more inclined to sell have been disposed of, and buyers have had to pay full prices, and occasionally a slight advance. As far as figures in foreign currency for export are concerned the principal factor continues to be the foreign exchange, which is still fluctuating heavily, with a general tendency in favour of foreign buyers."

LIME OIL is easy, fair West Indian distilled offering at 5s. 9d. per lb. and hand-pressed at 11s.

LINALOE OIL is quoted at from 25s. to 26s. per lb., as to holder.

LITHIUM CARBONATE is offered at the cheaper rate of 8s. per lb. on the spot.

MACE was firm at auction; 75 packages West Indian sold at 1s. 7d. to 1s. 8d. for good pale, slightly broken, 1s. 5d. to 1s. 6d. for fair, and 11d. to 1s. for dark broken; 89 cases Java sold at 1s. 5d. to 1s. 7d. for palish, slightly broken and wormy, and 10d. to 1s. 1d. for dark.

MANGANESE PEROXIDE.—A fair amount of business was done recently in Caucasian at about 23½ per ton c.i.f. Rotterdam, probably for German requirements. There is very little demand for this material here at present, while parcels are still available at Liverpool, and obtainable on cheap terms.

MASTICH.—The *Mylic* has brought 100 cases from Piræus.

MENTHOL is quiet, with spot sales of Kobayashi-Suzuki at 38s. per lb. and sellers.

METHYL SALICYLATE is unchanged at from 3s. 3d. to 3s. 6d. per lb.

MINT OIL, after being slightly easier, with spot sales of Kobayashi-Suzuki at 7s. 2d. per lb., sold on Wednesday at 7s. 3d. to 7s. 4½d.

MUSTARD-SEED.—Fine new crop Essex is worth 90s. per cwt.

NEROLI OIL.—Finest French is offered at 40s. per oz. on the spot.

NUTMEGS.—At auction 374 packages West Indian met a good demand, prices advancing 1d. to 2d. per lb.

OILS, FIXED.—*Linseed* is 3s. per cwt. lower on the spot at 92s. naked, ex mill. *Hull* (spot) is also lower at 89s. *Rape* is unaltered at 100s. for crude and 108s. for refined, likewise *Cottonseed* at 105s. for crude and 110s. for refined. Refined *Soya* is 110s. (maximum price); July-August shipment in cases is 86s. c.i.f. Hankow in barrels is 94s. c.i.f. for September-October shipment. *Chinese Wood* is 125s. spot and 118s. c.i.f. to arrive. *Coconut*; home refined maximum price is 110s. naked; Cochin for September-November shipment is 102s. c.i.f. *Palm* is lower, Lagos offering in Liverpool at 89s. and softs at 88s. 6d.

OPIMUM.—Rather more business is reported in Turkey drugists' on the spot, and up to 21s. per lb. has been paid for 1½ per cent. Persian is nominally 50s. to 55s. per lb., with some inquiry for export. Smyrna reports a good business

for Germany and the United States. A Smyrna advice dated September 5 reports that the opium market has been kept busy with purchases for the Continent and the U.S.A. In all some 135 cases have changed hands at 8s. 6d. to 12s. for low grade, and 13s. to 17s. for 11 per cent. to 12½ per cent. Our exchange for sterling and dollars has kept steady on the whole, and to-day it is ps.365 for bank cheques and ps.362 for first-class sight drafts per pound sterling on private firms. Dollars being in better demand, its exchange is slightly higher.

PEPPER is firmer, with spot sales of fair *black* Singapore at from 1s. 0½d. to 1s. 0½d. per lb., also September-November and October-December shipment at 11d. per lb. c.i.f. London and sellers. Fair *Tellicherry* has been sold at 1s. 2½d., and *Aleppy* is 1s. *White* pepper is dearer, the sales including Muntok at from 1s. 4½d. to 1s. 5½d.; to arrive Muntok for September-November and October-December shipment has been sold at 1s. 4½d. to 1s. 4½d. c.i.f. The spot value of Singapore is 1s. 5d.

PEPPERMINT OIL.—The American market appears to be in the hands of speculators, and buyers for consumption prefer to look on until more settled and probably easier conditions prevail for new crop. This week \$8.30 has been cabled from New York, equal to about 41s. 6d., to arrive; spot (London) parcels continue scarce at between 40s. and 42s. 6d.; holders of I.G.H. ask 52s. 6d. to 50s.

PEPPERS are rather lower, B.P. powder (1:2,500) offering at 25s. and U.S.P. (1:3,000) at 31s. per lb.

PETROLEUM JELLY is quiet at from 45s. to 95s. per cwt., as to quality.

PHENACETIN can be had at from 18s. 6d. to 20s. per lb. on the spot, as to seller and quantity.

PHENAZONE is unchanged at from 25s. 6d. to 26s. per lb. on the spot.

PIMENTO is steady, with spot sales at 5½d. per lb.

POTASHES.—First American are quoted at 260s. per cwt. on the spot.

QUICKSILVER.—The undertone is quite firm, quotations for Spanish being 24½ to 24½ 10s. per bottle, less 3 per cent. Orders might be placed for Italian, and possibly also Spanish, at 23½ 15s. net. We understand that Italian quicksilver could be had in fair quantities on c.i.f. terms for shipment to this country. The New York market would appear to have been temporarily sharply depressed down to \$95, due to a light demand, freer arrivals, and the throwing of a considerable quantity on the market, but the tone has since improved again, while the San Francisco price at the end of August stood firmly at \$102 per flask. Our imports for August were 5,063 bottles, making 27,664 bottles for eight months. The re-exports last month were 3,627 bottles, making an aggregate of 18,674 bottles for the eight months. The arrivals in London comprise 1,000 bottles from Genoa.

QUININE.—A fortnight ago we mentioned Government control as being removed. This has not yet appeared in the London "Gazette," but may be expected very shortly. We do not, however, anticipate a very considerable rise in the price of the drug. As stated last week, a rise will be essential in view of the statistical position of quinine and many other circumstances affecting the supply of raw material from Java. It is hoped that quinine to the retailer will not exceed the 4s. level, and there is reason to believe that the British Quinine Corporation, in co-operation with the Dutch "combine," will use all means within its power to prevent this occurring: 4s. is not an excessive price for quinine, as of course it barely affects the price to the actual small consumer who uses the drug for medicinal purposes. The consumption in the United Kingdom is also relatively small, the greater part of the quinine dealt with in this country being for re-export. It can be stated with authority that it is hardly likely that quinine will advance more than a few pence once the "Gazette" notification regarding the raising of Government control is published. Pending this removal the second-hand market is largely of a nominal character, sellers holding aloof, although it is reported that up to 3s. 9d. has been paid for 1,000 oz., with a buyer at this figure.

RESIN.—The United Kingdom Rosin Distributors' Association, Ltd., state that they have purchased the whole of the Government's holdings in the United Kingdom. No quotations are available at the moment.

SACCHARIN is firmer and still in good export demand. Holders ask 25s. per lb. for 550 pure in bond for export, and for home consumption about 20s. is quoted. The New York price has advanced to \$4.00.

SAFROL is scarce and dearer at 5s. 3d. to 5s. 6d. per lb.

SALICYLATES are unchanged, B.P. salicylic-acid powder offering at from 2s. 6d. to 2s. 9d. per lb., and sodium-salicylate B.P. powder at 3s. 6d. per lb.

SALOL is unchanged at from 4s. 6d. to 4s. 9d. per lb. on the spot.

SARSAPARILLA.—First-hand holders of Native-Jamaica ask the advanced rate of 1s. 6d. per lb., and this particular description is scarcer than it was.

SENEGA.—Although several lots have arrived recently it is difficult to obtain delivery from the docks, and in some instances goods that have been landed cannot be traced owing to enormous quantities of produce that have accumulated in the P.L.A. warehouses and docks. The New York market is reported extremely firm, with heavy export buying; \$1.55 to \$1.60 is quoted. The *Tunisian* has brought 31 sacks from Montreal to London. Spot holders quote 8s. 6d. to 8s. 3d. per lb.

SENNA.—Tinnevely is again higher, with an almost entire absence of bold No. 1, this description having been disposed by the leading interests, and only No. 2 and No. 3 qualities are left. Good but small greenish is now worth 9d. Prices since the last drug-auction appear to have advanced about 20 per cent. We note that on August 31 the London stock of senna stood at 5,857 packages, against 8,788 and 9,413 packages at the corresponding dates of August 1918 and 1917; the landings in London last month were 288, and the deliveries 548 packages.

SHELLAC is firmer, the spot value of the usual standard TN Orange quality being 482s. 6d. to 485s., at which sales have been made; fine Orange is 492s. 6d. to 505s. okay to blocky AC Garnet 395s., sellers. Futures are lower, the sales including October at from 470s. to 472s. 6d. and December 465s. to 467s. 6d. to 470s.

SULPHONAL is offered at 78s. per lb. on spot and 75s. to arrive.

TARTARIC ACID is firm at from 3s. 3d. to 3s. 3½d. per lb. Powder is in good demand, and particularly scarce.

TURPENTINE has been active at fluctuating prices, closing rather lower on the week at 129s. per cwt. on the spot.

VANILLIN is offered at 65s. to 67s. 6d. per lb. on the spot, and at 65s. to arrive. The difficulty in regard to obtaining spot supplies has eased considerably. Latest New York advices report that market as strong, with a heavy export demand.

WAX, VEGETABLE, is about 2s. per cwt. lower, with spot sellers at 92s.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the ports named:

London

(Sept. 2 to 8).

Alcohol, crude (U.S.), 126 drms.
Almonds (It.), 200 lbs.
Bromides, potash (Fr.), 4 cks.
Bromine (Fr.), 86 cs.
Chemical products, etc., not described, (Belg.) 7 cs., (Can.) 22 cs. 7 kgs. 6 brls.
Acetic acid (N.Y.), 54 brls., (R'dam) 32 cks.
Ammon. phosph. (N.Y.), 104 brls.
Anthracene (Fr.), 100 sks.
Arzel, (Cape) 19 bgs., (It.) 61 cks.
Borax, refined (U.S.), 11,252 sks.
Boile acid (It.), 400 brls.
Chrome alum (Cal.), 34 cks.
Menthol, (Jp.) 25 cs., (Fr.) 15 cs.
Milk-sugar (Amst.), 100 cs.
Potashes, (Can.) 4 brls., (N.Y.) 20 cks.
Soda bromide (N.Y.), 20 cs.
Tartar, (Antwerp) 258 bgs., (Fr.) 51 brls.
Tartaric acid (It.), 12 cks.
Zinc oxide (N.Y.), 200 brls.
Dextrin (R'dam), 93 lbs.
Drugs, crude, and herbs: Aloes (Curaçao) (N.Y.), 200 cs.

Araroba (Bahia), 58 cs.
Calumba (B'bay), 289 bgs.
Camphor (Ch.), 50
Canella alba (N.Y.), 8 brls.
Cardamoms, (Cal.) 7 cs., (B'bay) 194 pkgs. 82 cs.
Cascarilla (N.Y.), 49 brls.
Colchicum root (It.), 15 bgs.
Galls (B'bay), 168 bgs.
Gentian (Fr.), 14 brls.
Guaiacum (N.Y.), 13 cs.
Ipecacuanha, (Bahia) 45 brls., (Rio) 11 brls. 14 bxs.
Liquorice-root (Bom-bay), 100 lbs.
Marjoram (Fr.), 39 brls.
Nux vomica (B'bay), 65 bgs.
Opium (Smyrna), 116 cs.
Orris (It.), 75 bgs.
Senega (N.Y.), 9 brls.
Turmeric (B'bay), 675 bgs.
Drugs, medicines, etc., not described (N.Y.), 100 cs.; nujol, 1,000 cs.
Dyes, dyeing and tanning materials, etc.: aniline dyes (Ostend), 367 pkgs.; extract, tanning (N.Y.), 150 brls.; indigo (E.I.), 52 cs.; myrabolans (E.I.), 25,600 pockets 616 bgs.; sumac

ext. (Ostend), 31 pkgs.; tanning material (E.I.); 97 pkgs.; valonia (Smyrna), 1,119 bgs.
Egg products: albumen (Ch.), 100 cks.; whole (Ch.), 33 cks.; yolk (Ch.), 1,112 cs. 606 cks.
Gelatine (Fr.) 63 brls., (Antw.) 19 brls.
Glucose (N.Y.), 7,201 brls.
Gums, resins, etc., not described, (Fr.) 31 cs., (B'bay) 185 bgs. 103 cs.; copal (N.Y.), 622 bkts.; karaya (B'bay), 230 bgs.; lac: button (E.I.), 382 cts. 172 bgs.; garnet, 250 bgs. 100 cs.; shell, 800 cs. 210 bgs. 1,336 cts., (Suez) 115 cs.; oil-banum, 50 cs.; resin, (U.S.) 4,150 brls., (Antw.) 281 cks.
Lead, white (Antw.), 78 cks.
Malt ext. (N.Y.), 100 cs., 75×½ brls., 25 brls.
Oils, essential: cajuput (Amst.), 40 cs.; caraway (R'dam), 10 cs.; mint (Jp.), 250 cs.; peppermint (U.S.), 33 cs.; rose (Smyrna), 9 cs.; sandalwood (E.I.), 121 cs.; turpentine (Antw.), 1,290 drms. 650 brls.
Oils, fixed: castor (Brazil), 50 cks.; coconut, (Jp.) 3,000

cs., (Ch.) 50 drs., (N.Y.) 2,265 brls., (Holl.) 1,572 brls., (Bahia) 203 cs.; cotton, (Jp.) 5,000 cs., (Brazil) 10 cks. 250 cs. 501 bxs., ground-nut, (Jp.) 3,000 cs., (Ch.) 5 cks.; hardened (Ch.), 300 pkgs.; olive, (It.) 40 cks. 100 brls., (Fr.) 141 brls. 280 cs.; rape (Jp.), 2,000 cs.; soya, (Jp.) 21,000 cs., (Ch.) 512 cks.; spermaceti oil (Lisbon), 142 brls. 4 pps.
Perfumery, (Antw.) 8 cs., 1 brl., (Fr.) 32 cs.
Seeds: caraway (R'dam), 120 bgs.; cashew nuts (B'bay), 25 cs.; copra (Penang), 19,802 bgs.; cotton, (Brazil) 11,964 bgs., (B'bay) 50,290 bgs.; fennel (E.I.), 51 bgs.; ground-nuts (E.I.), 15 brls.; lin, (E.I.) 65,149 bgs., (Brazil) 5,000 bgs.; millet (Mor.), 285 bgs.; niger (B'bay), 840 bgs.; rape (E.I.), 3,744 bgs.; sesame (Ch.), 350 bgs.; poppy (E.I.), 73 bgs.
Spices: cloves, (B'bay) 113 brls., (Havre) 913 brls. 6 bgs.; ginger (B'bay), 1,076 pkgs.; pepper (E.I.), 647 bgs., (S'pore) 700 bgs.
Sponges (N.Y.), 604 brls.
Starches: farina, (Jp.) 3,864 bgs., (Holland) 200 bgs.; wheat, (Jp.) 700 bgs., (N.Y.) 150 bxs.
Stearin (Fr.), 254 bgs.
Talc (N.Y.), 250 bgs.
Tallow (N.Y.), 2,829 cks. 12 brls. 48 cs.
Vanilla (Fr.), 9 cs.
Wax, bees' (Cal.) 20 cs. 30 cts. 97 bgs., (B'bay) 9 cs. 203 brls., (Belra) 267 pkgs., (Cape) 107 brls., (Morocco) 8 bgs.
Wax, carnauba (Rio), 106 bgs.
Wax, paraffin (scale), (N.Y.), 2,888 brls.; (paraffin), 280 brls. 653 cs.
Wax, vegetable (Fr.), 200 cs.

Liverpool

(September 1 to 6).

Almonds (Sp.), 1,534 bxs. 204 cs. 892 bgs.
Barytes (Sp.), 5,000 bgs. 967 brls.
Casein (S. Amer.), 200 bgs.
Chemical products: Argol (Fr.), 165 bgs. Barium carb. (U.S.), 325 bgs.
Borate, calc. (U.S.), 13,324 sks.
Borax (U.S.), 925 bgs.
Bromides: barium (Halif., N.S.), 5 cs.; potash (Halif., N.S.), 20 cs.
Calc. acet. (U.S.), 3,851 bgs.
Cream of tartar, (B'deaux) 53 cks., (Sp.) 8 brls.
Oxalic acid (Amst.), 10 cks.
Saltpetre (E.I.), 2,500 bgs.

Soda bichrom. (U.S.), 84 cks.
Tartar, (Fr.) 120 bgs. 52 cks., (Sp.) 24 brls.
Zinc, oxide (Antw.), 15 kgs.
Drugs, crude: roots, not described, (Halif., N.S.) 41 bgs., (Fr.) 8 brls.
Aloes, Curaçao (Halif., N.S.), 90 cs.
Coca (S. Amer.), 83 brls.
Cod-liver oil (St. Johns, N.S.), 190 brls.
Liquorice-juce (Fr.), 10 cs.
Opium (Cstple), 36 cs.
Orange-peel (Sp.), 40 mats.
Rhubarb (Fr.), 16 cs.
Sarsaparilla, (S. Amer.) 7 brls., (Halif. N.S.) 35 cs.
Dyes, dyeing and tanning materials, etc.: cutch (E.I.), 95 bgs.; extract, tanning, (Fr.) 2,761 cks., (N.Y.) 75 brls., (B'more) 496 brls.; myrabolans (B'bay), 3,576 bgs.; orchella (Para), 10 brls.; quebracho ext. (S.Amer.), 115,517 bgs.; yellow berries (Cstple), 69, bgs.
Glucose (Can.), 840 brls.
Gums, resins, etc.: resin, (Fr.) 2,041 cks., (U.S.) 1,500 brls., (Sp.) 162 brls.; tragacanth (Cstple), 19 cs. 76 pkgs.
Lime-juice (W.I.), 55 puns.
Oils, essential: undescrbed (Amst.), 6 djhns; turpentine (U.S.), 1,000 brls.
Oils, fixed: coconut ref., (N.Y.) 8,112 brls., (Amst.) 730 brls., (Sydney) 600 cks., coconut acid oil (Amst.), 230 brls.; cod (St. Johns, N.S.), 177 cks.; cotton (Braz.) 124 brls.; linseed (Amst.), 289 brls.; olive, (Sp.) 2,779 brls. 11 cs., (Fr.) 786 cs.; palm (W. Af.), 2,216 cks.; palm kern. acid oil (Amst.), 232 brls.; seal (St. Johns, N.S.), 26 cks.; soya (U.S.), 1,899 brls.
Perfumery (Fr.), 24 cs.
Seeds: anise (Sp.), 20 bgs.; babassu (Braz.), 7,022 bgs.; canary (Cstple), 350 bgs.; castor, (W.I.) 89 bgs., (Braz.) 1,700 bgs.; cotton, (B'bay) 3,200 bgs., (S. Amer.) 27,690 bgs., (Cstple), 834 bgs.; copra (W. Af.), 119 bgs.; ground-nuts, (Sp.) 129 bgs., (Fr.) 1,859 bgs.; lin (E.I.), 3,959 bgs.; palm kernels (W. Af.), 40,195 bgs. 752 tons; ucuhaba nuts (Para), 180 tons.
Starches: dextrin (N.Y.), 1,290 bgs. 3,520 cs.; farina (Fr.), 2,318 bgs.
Stearin (S. Amer.), 435 trcs.
Talc (Fr.), 4,881 bgs.
Tallow, (S. Amer.) 468 pps. 1,411 cks. 26

hhds. 1,942 trcs., (N.Y.) 289 cks.
Vanilla (B'deaux), 22 cs.
Wax, not described (Fr.), 11 cs.
Wax, carnauba (Braz.), 558 bgs.
Wax, paraffin (U.S.), 750 brls.
Wax, ucuhaba (Para), 605 cs.

Hull
(Aug. 30 to Sept. 4).
Cottonseed (Alex.), 1,862 tons; gambier, (S'pore), 1,588 bgs.; linseed (R. Plate), 177,447 bgs.; magnesite (Norw.), 102 bgs.; soya beans (Ch.), 48,000 bgs.

Manchester
(Aug. 30 to Sept. 5).
Aniline dyes (Belg.), 177 cks.; antin. salts (Rouen), 50 cks.; calc. phosphate (Boston), 98 brls.; dextrin (R. Plate), 440 bgs.; glucose (N.Y.), 500 brls.
Bark (tanning) (Fr.), 712 bgs.; coconut oil (N.Y.), 728 brls.; dyewood ext. (N.Y.), 59 brls.; fig syrup (U.S.), 4,800 pkgs.; logwood ext. (Phila.), 155 brls.; glucose (N.Y.), 2,000 cs. 500 kgs. 410 brls. 500 ×½ brls.; linseed (S. Lorezo), 75,162 bgs.; wax, paraffin scale (U.S.), 560 brls.

Southampton
(Sept. 1 to 2).
Drugs (N.Y.), 1,815 pkgs.; essential oils (Fr.), 8 cs.; tartar (Fr.), 33 cks.; wattle bark (Cape), 6,393 pkgs.; ext., 2,070 pkgs.; whale oil (Cape), 130 drms.

Hull
(September 1 to 5).
Ginger (W. Af.), 1,491 bgs.; gum copal (W. Af.), 537 brls.; lithopone (R'dam), 60 cks.; myrabolans (B'bay), 2,560 bgs.; palm oil (W. Af.), 346 butts 13 cks.; soda nitrate (Fr.), 50 cks.; roots, not described (Fr.), 52 bgs.
Seeds: caraway (Amst.), 50 brls.; cotton (B'bay), 16,564 bgs.; jamba (In.), 7,705 bgs.; lin (R. Plate), 187,911 bgs., (E.I.) 21,960 bgs.; mowra (B'bay), 3,200 bgs.; niger (B'bay), 350 bgs.; palm (W. Af.), 44,222 bgs. and 688 tons 15 cwt.; rape (In.), 903 bgs.; soya (Jp.), 90,797 bgs.; turpentine (Swe.), 35 cks.; wattle bark (Natal), 1,200 brls.; wax, bees' (Conakry), 1,324 pkgs.

Newhaven
(Sept. 2 to 5).
Drugs (Fr.), 12 pkgs.; essent. oils (Fr.), 7 cs.; perfumery (Fr.), 145 pkgs.

German Potash Salts.

THE Anglo-German potash agreement (says Reuter's Berlin correspondent) has been ratified by the respective Governments. 22,500 tons of pure potash will go to England in the next few months. The negotiations of the Potash Syndicate with the United States have not yet yielded any result. A Cologne telegram reports that the Potash Syndicate, in agreement with the Dutch Potash Import Association, has fixed new selling prices, which constitute a suitable advance on the former rates. The Syndicate is at present engaged with the export of 50,000 tons of potash. When circumstances allow this quantity will be considerably increased. At an extraordinary meeting of the Sankt Therese Potash Co. in Mulhausen, Alsace, it was decided to transform 8,000,000m. of capital into 10,000,000frs. The company will issue a loan of 20,000,000frs. to enable it to sink a new double shaft. The French Government has declared the compulsory liquidation of French share holdings in this company invalid. It is not yet known what is to become of other German potash undertakings in Alsace. The French intend to form a large potash group to which most of the works are to belong, including the daughter companies of the German Potash Works Co., and the Amélie, Else, Josef, Max, Maria, Marie Louise, and Anna mines, the majority of which belong to the German potash works. The new potash group (says the "Kölnische Zeitung") will take the form of a large joint-stock company, with a capital of some 50,000,000frs. The settlement with the German interests will probably be effected through the Imperial Government. According to the "D.A.Z.," the American wholesale trade has made an inquiry by cable of the Potash Syndicate respecting deliveries of potash. Nothing has as yet been fixed with regard to the amount of the order or the price. But it was suggested at a meeting of the Rothenburg mine that the value of the consignment would probably be 10,000,000m. This first commencement of business relations (says the "D.A.Z.") shows that America has no intention of joining in a ruthless economic war against Germany. Further, the telegram shows that there is no truth in the statement frequently made in Entente countries that it will be possible to ignore Germany and obtain potash from Alsace only. The Chairman of the meeting referred to above said that Germany could not deliver at the old prices, and that the price policy of the potash industry would have to be completely revolutionised. The "D.A.Z." also learns that the "Bulletin des Halles" reports that the Potash Sales Office in Mülhausen has offered Rotterdam dealers 20,000 tons of kainite for 1919. The dealers, however, have made the condition that the same quantity must be guaranteed for 1920 and 1921, and have threatened that, should this condition not be accepted, they will approach the German Potash Syndicate and ignore the French Kainite Export. The German Potash Syndicate has concluded with the Dutch Potash Import Association a new price agreement which includes 20,000 tons of potash contracted for in May and delivered in the middle of June. The Syndicate is at present engaged in exporting to Holland about 50,000 tons of potash and potash salts, and larger amounts are to follow. At the general meeting of the German Potash Works in Bernterode the Director spoke of the situation and prospects. The situation would be determined by the competition occasioned by the loss of Alsace, by socialisation, and the present economic position. America was looking to France and Alsace, but would probably again be obliged to have recourse to German potash. It was uncertain how far Spain could compete. The only hope for the German industry was in being left free of bureaucracy to adapt itself to the requirements of the various countries; at present some five or six different authorities had to be consulted. If the introduction of adequate food supplies removed the existing unwillingness to work and the price of potash were adjusted to the cost of production, the outlook for the future was sufficiently bright, provided always that taxation was not too high. The dividend was fixed at 7 per cent.



C. & D. Diamond Jubilee.

SIR,—I feel I must write and compliment you on your Diamond Jubilee number and wish you many, more years of progress. In my desk I have a copy of the original Vol. 1, No. 1, and I wonder how many people can say that? On looking through it, it is remarkable how near the then prices are to those of to-day. One could almost treat it as a current list, with the exceptions of things like aloes at 24s. cwt., ess. bergamot, 12s. lb., rad. ipecac. 4s. 10d. lb., and a few others. It is interesting also to see advertised the "new" rubber tobacco pouches, and what strikes one more than ever is an advertisement by a retail chemist for a "tall, gentlemanly young man, about 23, as assistant. Salary 35l. per annum." What would an assistant say to that to-day? And on page three you give the "war news," saying, "Disastrous news received from China. Three men-of-war sunk. Allied troops repulsed." Oh! it's full of good and interesting things is this first number of the Journal that has been so very successful. Again, many good wishes,

Yours faithfully,
J. H. (27/17.)

Transport of Medical Stores.

SIR,—Regarding Mr. Poucher's article, "Saving Transport of Medical Stores" (*C. & D.*, September 5, 1919), it might interest your readers to hear something about the practical working of a similar scheme. Early in 1917, when I was dispenser at the 27th Casualty Clearing Station, Salonika Force, I had several conversations with my O.C. on this matter. On May 1 I wrote a paper suggesting that a great saving in freightage and public money might be effected by establishing a bottling and manufacturing department in connection with one of the Base dépôts of medical stores at Salonika. This paper my O.C. consented to forward to the proper authorities. I heard nothing further till November 1, when I received an order to proceed to No. 12 Base Dépôt Medical Stores, Salonika. Arriving there, I was told by the Major in charge (a quartermaster of the regular R.A.M.C.) to "get on with my scheme." There were two other Base dépôts at Salonika, but it was decided that we should bottle and manufacture their requirements as well as our own. I was given a large hut, and my staff (in addition to myself) consisted of a chemist and druggist (sergeant) and two unskilled privates of the R.A.M.C. An automatic still and what fittings and apparatus we required were obtained locally. The scheme was a complete success. All drugs used in large quantities, such as ac. boric, soda sulph., acid. carbol., ol. ricini, ointments, etc., were sent out from home in bulk and bottled by us. In addition, we manufactured such preparations as aq. dest., sol. acid picric 1 per cent., liq. arsenicalis (over 1,000 lb.), local anæsthetic (over 700 bottles), tinct. iodi, liq. potassæ, etc. No difficulty was experienced in obtaining a plentiful supply of empties from the surrounding hospitals. Formerly these valuable containers were wasted, as it was impossible to send them home, and they could not be sold locally. Now a few figures to show the saving effected. Formerly boric acid was sent out in 50-lb. boxes, each measuring 6 cubic feet and containing 25×2-lb. W.M. bottles. Five hundred pounds would then require:

250 bottles at 6d.	...	...	...	£6 5 0
10 boxes at 15s. 6d.	...	...	...	7 15 0
Total cost of containers	...	...	...	£14 0 0
Cargo space required	...	...	...	60 cubic ft.

When obtained in "bulk," a 500-lb. cask only cost 5s., and measured 9 cubic ft.—a remarkable saving both in

cash and freightage. On preparations manufactured the saving is even more marked. Our still (worked by a four-burner "Primus") turned out one gallon of distilled water an hour at a cost of one volume of paraffin for seven of aq. dest. But eight gallons of oil (packed in 2x4-gal. tins) only occupied 3 cubic ft. cargo space, and, by the way, came from Egypt. This quantity of oil produced 448 pints of aq. dest., which, packed in the old manner—40 pints to a 6-cubic-ft. box—would require 67 cubic ft. Cargo space was thus reduced from 67 to 3 cubic ft. In addition, there is the saving on containers—bottles and boxes. Our working expenses were light, and should easily be covered by the reduced prices charged by the contractors for drugs supplied in "bulk." The comparatively short distance from London to the French Bases, and the fact that most of the empties should have been returned or sold locally, scarcely warranted the introduction of such a scheme in France. For my work at Salonika I was "mentioned in despatches," and have been recommended for a valuable training grant at the Royal College of Science, so that I have no complaint as to my treatment by the authorities.

Yours faithfully,

MERVYN V. SARGENT (L.P.S.I.).

Lannreagh, Naas.

What is a Tout-bib?

SIR,—The word *tout-bib* or *toubib* (*C. & D.*, September 13, p. 95) is more often spelt *tabib* and pronounced *tahbeeb*, and is the Arabic word for doctor. It is applied not only to the native doctors, but to all medical men round the Mediterranean coast and along the North Coast of Africa, where Arabic and allied dialects are spoken, and where there are both native and foreign doctors, many of whom have English and Continental qualifications. The word *tabib* is used colloquially as we use the word doctor, but there is also another word, *hakim*, meaning doctor, and it is interesting to note that the word *habib* means friend. Whether there is any connection between *tabib*, *habib*, and *hakim* I am not sufficiently learned to say, as my Arabic is mostly of the business and colloquial variety. A word frequently used for chemist is *speziar*, a corruption of the Italian *speziade*, an apothecary, although in Italy itself the term *farmacista* is the one in general use.

Yours faithfully,

SPEZIAR INGLESE. (23/63.)

Australian Business.

SIR,—Almost immediately the Armistice was signed the Americans and Japanese started sending us their catalogues and price-lists, and these are coming to us by every mail; they are pushing business all right, so are the French. We get nothing, or very little, in this line from the home country—no catalogues, no price-lists. How is this? Are all the merchants and manufacturers in England asleep, or is the price of paper and printing too expensive to admit of it? I for one—and there are hundreds more—would very much rather deal with a British house than a foreign one. But what are we to do? The other fellows are pushing the business for all they are worth, and they will get it, too, if John Bull does not look out and wake up before it is too late. It is all very well for ads. to appear in the *C. & D.* stating "Correspondence invited," "Prices sent on application." The British manufacturer seems to forget that it takes at least four months, and sometimes more, to get an answer to a letter written from Australia. Illustrated price-lists are what are wanted, as one can judge of the goods at once and order accordingly, so time is saved. The Americans and Japanese are pushing hard to capture the Australian trade. A few days ago I saw in one of the newspapers that one of the American Commissioners gave a long address before the Adelaide Chamber of Commerce, and will do the same in all the other cities. This will give the home people an idea of what their competitors are after. They are great hustlers, and if they do not catch the trade it will not be their fault.

Yours, etc.,

AUSTRALIAN CHEMIST. (21/18.)

Grants to Students.

SIR,—Like "Pending" (*C. & D.*, September 13, p. 95), I also have applied for free training for the "Minor" examination. I first applied in May, 1919, and since then have had various forms to fill up, applications for marriage and birth certificates, and have interviewed two boards. I understand I am considered to be a suitable case for assistance, but surely it is the very essence of refined cruelty to keep us in the dark as to when and where the classes will be held. I am married, with several children, and yet a young single friend of mine has had an "informal notice" from the Pharmaceutical Society as to where he is to go for his training, while I am still in doubt as to whether I am to give notice to my employers, and a letter to the Society brought a typed reply to say that correspondence with the Society only caused more delay.

Yours sincerely,

ALSO PENDING. (23/73.)

Assistants' Wages.

SIR,—In reference to the letter signed "Only the Guv'nor" (*C. & D.*, September 13, p. 95), I quite realise the difficulties which proprietors of pharmacies would meet if the Sheffield scale of wages was adopted generally, but at the same time it must be recognised that under the present high cost of living and continually rising expenses the rate of pay will have to be considerably higher than in the past if competent men are to be attracted to and retained in the calling. And in this respect many pharmacists who wish to save money on wages seem to have no objection to losing it by unbusinesslike methods and by injudicious pricing. Without going into the question of dispensing charges, I would like to point out that there are many men who still go on selling at the old prices, such as cream of tartar, confection of senna, etc., at 4½d. a quarter, presumably because they learned these figures during their apprenticeship, and have not yet aroused themselves to modern fluctuations. Some men seldom go through the prices on an invoice, being content to check the articles received; others rarely read trade notices and circulars, and one man I knew, who touched the lowest point of the scale, did not even subscribe to the *C. & D.* With such methods it is impossible to pay advanced wages and still make an equitable profit, but if these men would price all drug parcels with cost prices, all sundries with cost and selling prices, then every time the goods were sold or replaced the prices would be in front of them, and could be kept up to date. Again, some pharmacists deliberately cut the profit when the wholesale rate has gone up considerably, fearing that the price will look high, but there should be a fair rate of profit fixed and based on the cost of the commodity. Modern times demand modern methods as well as modern wages, and the survival of the fittest is as applicable to pharmaceutical life as to every other form of existence.—Yours faithfully,

REASONABLE ASSISTANT. (23/41.)

Assistants for Abroad.

SIR,—I note the recommencement of the old game of importing innocents abroad on inadequate salaries. According to a recent advertisement, a laboratory manager will find himself under agreement to accept a salary in South Africa, which a coloured bricklayer would scorn, and which yearly stipend a coloured fisherman would make in a few months. Coloured people live in cheap slums. I do not know where a white family can live decently on the sum advertised. The salary stated in the advertisement for an assistant is impossible, and the acceptant will find that he gets less than the coloured labourer who sweeps the floor. Those lured overseas in ignorance of economic conditions obtaining should decline to re-sign the agreement on Colonial soil. It would be enlightening to know how the passages are arranged, when many South Africans are held up in England in distressing circumstances. If the stream of imported sweated men is maintained, obviously each has no local prospects as his engagement expires. Those who contemplate emigration should get in touch with disinterested men with recent experience of the particular locality in view.—Yours faithfully,

Cape Town, South Africa.

CLAUDE NORTON.

Legal Queries.

Setat (22/57).—Neither carbolised wheat dressing nor copper sulphate is a scheduled poison.

G. B. (23/8).—Cocaine is a poison in Part I. of the Poison Schedule in Ireland as well as in Great Britain.

D. D. S. (253/4).—UNCOLOURED METHYLATED SPIRIT may not now be sold retail. The Order published in the *C. & D.*, June 1, 1918, p. 44, has not been rescinded.

W. F. B. (23/65).—The dispensing of medical prescriptions in Ireland is reserved to apothecaries and pharmaceutical chemists. This presumably includes prescriptions for animal medicines.

O. H. (253/53).—(1) COCAINE PREPARATIONS can only be sold upon the stringent conditions laid down in the Cocaine and Opium Regulation (see *C. & D. Diary*, 1919, p. 79). (2) TINCTURE OF OPIUM is a Part II. poison in Ireland, and so is Jaregoric elixir.

A. A. I. (224/16).—The small label of ingredients which you paste on the back of the bottles of cough mixture does not convert the mixture into a "known, admitted, and approved remedy" while you employ your name in the possessive case as part of the title.

H. W. (23/34).—There is nothing to prevent you making a camphorated oil with mineral oil, but it is illegal to sell it as camphorated oil unless you give the purchaser notice that the product is not made according to the British Pharmacopoeia, which requires olive oil to be used.

J. H. C. (23/68).—You will require a licence from the Food Controller to manufacture a pudding powder containing flour, and will be required to pay a fee which represents the amount of the bread subsidy paid by the Government out of the general taxation of the country.

Statim (17/35).—PHARMACEUTICAL ASSISTANTS.—The Irish qualification of "pharmaceutical assistant" permits an assistant to manage the business of a pharmaceutical chemist in the temporary absence of the latter. Temporary absence has not been legally defined, but it is interpreted in a reasonable manner—e.g., such an assistant could carry on the business during the proprietor's absence on holidays.

F. M. T. (23/9).—(1) The exemption in the Shops Act, 1912, as to the "sale of medicines and medical and surgical appliances" after hours does not apply exclusively to qualified chemists. (2) When unqualified persons visit patients in the capacity of medical advisers and make a charge they are probably committing an offence under the Apothecaries Act or Medical Acts. (3) Medical practitioners are not allowed to employ unqualified assistants to visit patients.

Glamorgan (16/30) has purchased a business, and is taking over the lease of the business premises and also his predecessor's two apprentices. Will a new lease of the premises and fresh indentures of apprenticeship have to be prepared, and, if so, will the documents require to be stamped? ["Glamorgan's" tenancy of the premises can only be secured by an assignment of the lease, upon which stamp-duty will be payable. Apprentices are not assignable, and fresh indentures of apprenticeship should be prepared and stamped. "Glamorgan" should engage the services of a solicitor in connection with the transfer of the lease.]

T. J. C. (258/28) asks as to repayment of spirit duty on spirits used for medical preparations. He has been keeping the usual stock-book since March 1919. The spirit used is certified to be 58 overproof, and duty was paid at the rate of 31s. 6d. per proof gallon. He wishes to know the amount per gallon he can claim on the 58 overproof spirit used. [The spirit duty actually paid in respect of spirit used in making spirituous articles recognised by the Commissioners of Customs and Excise as medical articles may be claimed back up to the extent that the duty exceeds that which was in force immediately before the increase in duties made by the Finance Act 1918. In this case the duty so recoverable would be at the rate of 16s. 9d. per proof gallon. "T. J. C." should apply to the local surveyor or officer of Customs and Excise for a copy of the appropriate form of claim, and furnish a list of the names of the medical preparations made, and particulars of the quantity and proof-strength of the spirit used in making them. The official will then inform him as to which, if any, of the articles are not "recognised" medical articles. All such articles will be excluded from the claim. As it is very desirable that all claims for repayment should be promptly made the claim should be sent in without delay.]

Miscellaneous Inquiries.

W. C. (255/5).—RAT POISON.—The poison supplied by a travelling rat-catcher, and which has been found to be very effective, owes its activity to arsenic. This poison is present in a fairly large proportion as white arsenic.

W. & S. (17/48).—RESORCIN STAINS on fabrics are usually removable by citric-acid solution (1 in 30). If starched the fabric must be washed before attempting to remove the stain.

H. N. J. (17/17).—COPYING-GRAPH.—The original patent (expired) gave the proportions of the ingredients as—

Glycerin	...	...	4 parts
Water	...	...	2 parts
Gelatin	...	...	1 part

Improvements made since then are the addition of white powders such as whiting, barytes, or china clay, so that the writing is better seen and does not sink into the composition so readily. The ink used is a solution of methyl violet (2 parts) in a mixture of spirit (2), water (6).

J. C. H. (15/17).—RIDDING A CHURCH OF BATS.—The best way is to capture the bats during the night, attracting them by means of a lantern. The use of chloropierin or mustard gas is not feasible for several reasons, the chief being that it would be dangerous to spray a large quantity in a church, as the vapour is not readily got rid of afterwards.

J. A. (17/34).—MANUFACTURE OF PICKLES.—We do not know of any book dealing specially with this subject. It is treated incidentally in Pacrette's "Art of Canning and Preserving" (Sprague Canning Machinery Co., Chicago, 21s.), and Brant's "Practical Treatise on the Manufacture of Vinegar" (Low, Marston, 25s.).

J. M. W. (250/41).—HAIR-DYE.—By diluting the hair-dye which yields a black, you will obtain brown or chestnut colours. Gold or blonde hair is produced with peroxide of hydrogen.

E. B. (253/54).—VANISHING-CREAM.—Commercial stearin is unsuitable for making vanishing-cream for the reason you state that it is already combined with calcium.

Harrow (11/34).—SKIN-CREAM.—The following is a model formula for the type in which gelatin is used:

Gelatin	...	...	3ij.
Glycerin of starch	...	...	3vij.
Boric acid	...	...	3ss.
Distilled witch-hazel	...	...	3ix.
Orange-flower water	...	...	3j
Carbolic acid	...	...	gr. xx.
Oil of neroli	...	...	℥xxv.

Soak the gelatin in 1 oz. of distilled extract of witch-hazel; add the glycerin of starch and the boric acid dissolved in the remainder of the witch-hazel, heating till the gelatin is dissolved; finally add the remaining ingredients and put up in collapsible tubes.

Sensation (18/49).—The gnawing sensation in stomach in the early morning of which your customer complains may be the result of over-strained nerves or of duodenal ulcer. If there is no pain during the day it is probably nervous. A good deal depends on age and habits of patient. In any case, chewing a dry biscuit when the sensation comes on will do no harm. He may be given some bismuth, soda, and bromide.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1869.

Small-pox Prophylactic.

Homœopathists assert that the *Thuja occidentalis* (Arbor Vitæ) is a prophylactic (preventive) medicine for small-pox, having the same effect on the constitution as vaccination, only in a more manageable manner. Allopathic doctors, of course, regard such an assertion with contempt, although, as vaccination itself is purely homœopathic in its principle, the idea might be thought worth a few experiments. Doubtless there is some medicine yielded by the vegetable world by which such a result might be accomplished, and there is fame surpassing Jenner's for him who shall establish the discovery thereof. The prosecution of such investigations as are here indicated would render the medical profession more deserving of the eulogiums which it has lately received as a science than outsiders are disposed to accord to it.

Make sure you are handling
British Goods. Here are a few of

HOWARDS' PURE CHEMICALS

obtainable through your Wholesaler in
Original Packages

Finest Quality. Lowest Prices
British Made

ASPIRIN TABLETS
AMMON.

QUININ. TABLETS
ANÆSTHETIC
ÆTHER

ACID BORIC
ACID CITRIC
AMMON. CARB.
BISMUTH SALTS
BORAX
CAFFEINE
CAMPHOR

EPSOM SALTS
FERRI ET
AMMON. CIT.
FERRI ET
QUININ. CIT.
FERRI. SULPH. PUR.
IODIDES
LIQ. BISMUTHI.
MAGNES.
CARB. POND.
POT. ACETAS.
POT. CITRAS.

P. SEIDLITZ
QUININE SALTS
AND TABLETS
SODA MINT
TABLETS
SODII BICARB.
SODII CARB.
SODII PHOSPH.
SODA TART.
SPIRITS
TEREBENE
TABLETS
etc. etc.

HOWARDS
Estab. 1797 . . . ILFORD

HUBBUCK'S PURE OXIDE OF ZINC.

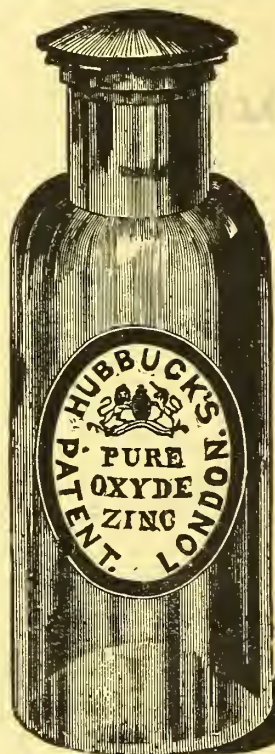
Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles:—

Allen & Hanburys (Lim.)
Ayrton, Saunders & Co.
(Lim.)
Baiss Bros. & Company
Bell, Jno., & Co. (Lim.)
Bleasdale (Lim.) (Lim.)
Boots' Pure Drug Co.
British DrugHouses (Lim.)
Burgoyne, Burdidges & Co.
Butler & Crispe
Clay, Dod & Co.
Cockburn & Co. (Lim.)
Corryn, Stacey & Co.
Dakin Brothers. (Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher &
Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothe-
caries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan
(Lim.)
Harkness, Beaumont &
Co.
Hatrack, W. & R., & Co.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons &
King.
Hodgkinsons, Clarke &
Ward.
Horner & Sons.
Huskisson, H. O., & Co.
Inman's Stores (of Edin-
boro').
Ismay, John, & Sons
Lothouse & Saltmer
(Lim.)
Oldfield, Pattinson & Co.
Pinkerton, Gibson & Co.
Raines, Clark & Co.
Raines & Co.
Rankin & Borland.
Silversides, R. B. G.
Southall Bros. & Barclay.
Sumner, R., & Co.
Taylor, James.
Thompson, John (Lim.)
Willows, Francis, Butler
& Thompson (Lim.)
Woolley, Jas., Sons & Co.
(Lim.)
Wright, Layman & Um-
ney (Lim.)
Wyleys (Lim.)

Barry, E. J., New York.
Carter, Carter & Kilham,
Boston.
Finlay & Branswig, New
Orleans.
Langley & Michaels, San
Francisco.
Lehn & Fink, New
York.

McKesson & Robbins, New
York.
Muth Brothers & Co.,
Baltimore.
Roller & Shoemaker,
Philadelphia.
Schieffelin, W. H., & Co.,
New York.
Shoemaker, R., & Co.,
Philadelphia.



HUBBUCK'S PURE OXIDE,

Is made by Sublimation, and is Warranted to contain upwards of

99 PER CENT.

Of Pure Oxide; in fact the impurities are not traceable.

THOS. HUBBUCK & SON,

(Established 1765) LTD.

**24 LIME STREET,
LONDON, E.C.3.**

Manufacturers of—

**White Lead, White Zinc,
Paints, Oils,
Colours, Varnishes, &c.**

AUSTRALIAN OFFICE—

34 QUEEN STREET, MELBOURNE.

The Manufacturers supply their Pure Oxide Wholesale only, in quantities of not less than 2 cwt.

EPSOM SALTS

Druggist & Commercial Qualities.

ZINC SULPHATE

(White Copperas).

ZINC CHLORIDE

Fused, Granulated and Liquid.

GLAUBER'S SALT

PROMPT & FORWARD DELIVERIES.

INQUIRIES SOLICITED.

William Blythe & Co., Ltd.

Chemical Manufacturers,

Church, Lancashire.

JOHN & JAMES WHITE, Ltd.

**7 West George Street,
GLASGOW**

Telegrams: "BICHROME."

Telephone: Central 9247.

CHROMATES AND BICHROMATES

All
Chrome
Compounds

Oxide of Chromium (99%)

Chromic
Acid
(97.98%)

Bichromate
of Potash

Chromate of Soda (59/60%)
(Ground)

Bichromate
of Ammonia

67/68%

Bichromate of Soda (67/68%)
(Crystal. Powder, Cake).

78/79%

(Crystal
Ground).

Bichromate of Soda (74/75%)
(Anhydrous. Granular)

(Crystal.
Granular).

SULPHATE OF AMMONIA 25½%
(Anhydrous—Neutral)

MOND GAS TAR
(Dehydrated)

CHROMETAN
FOR SINGLE BATH TANNING

J. F. MACFARLAN & Co.

ABBAYHILL CHEMICAL WORKS, EDINBURGH.

9 & 11 MOOR LANE, LONDON, E.C. 2.

CHLOROFORM & ETHER

Specially purified for Anæsthesia.

Morphine

Codeine

Apomorphine

Aceto-Morphine
(Heroin)

Ethyl-Morphine
(Dionin)

Cotarnine
(Stypticin)

Narcotine

Papaverine



Alkaloids

of
highest possible
purity.

Atropine

Emetine

Eserine

Homatropine

Hydrastine

Pilocarpine

Strychnine

Veratrine

Opium, Natural and in Powder.

Aloin, Capsicin, Chrysarobin, Gingerin,
Podophyllin, Salicin, Jalap and
Scammony Resin.

Caulophyllin

Cimicifugin

Euonymin

Extractives

standardised in
fine dry powder.

Hamamelin

Iridin

Leptandrin

T.&H. SMITH LTD

MANUFACTURERS

OF

MORPHINE, CODEINE

AND ALL OPIUM PRODUCTS.

A L O I N

SALICIN
STRYCHNINE
CANTHARIDIN
PODOPHYLLIN

CAFFEINE
EMETINE
CHLOROFORM
JALAP RESIN

THEOBROMINE
CAPSICIN
GINGERIN
SCAMMONY RESIN

*Blandfield Works,
EDINBURGH.*

*25 Christopher Street,
LONDON, E.C.*

*37 Washington Street,
GLASGOW.*

ASPIRIN

PURE ENGLISH
ACETYL-SALICYLIC ACID, B.P.

M.P. 135° C.

Free from SALICYLIC, ACETIC,
TARTARIC, and CITRIC ACIDS,
BORAX and all other impurities
and adulterants.

The complete purity of our product, combined with its beautiful physical state and well-crystallised condition, render it easily superior in every way to the German product it has replaced.

PHYSIOLOGICALLY PERFECT.
Supplied in Wholesale Quantities only.

PICKARD, IVE & RANKIN, LTD.,
186/88 Walmer Road, Notting Hill, W. 11.
Phone: 4500 Park. Telegrams: "Pickiveran, Norkens."

CAMOMILES.

WHOLESALE ONLY.

F. J. CARMICHAEL & CO.,
17 Water Lane, LONDON, E.C. 3.

EVANS, GRAY & HOOD

5 GT. TOWER STREET, E.C. 3

IMPORTERS

Alexandrian & Tinnevely **SENNA PODS**
CAMOMILES, etc.

Telephones—
Central 10867; Avenue 7308

Telegrams—
"Solazzi London"

EMETINE SANDAL WOOD

HYDROCHLORIDE OIL.

HYDROBROMIDE

ALSO

EMETINE-BISMUTH-IODIDE,
ATROPINE, STRYCHNINE,
CAFFEINE, THEOBROMINE, NICOTINE
QUININE SALTS,
IODINE & BROMINE PREPARATIONS

Mercurials, Refined Camphor.
MORPHINE AND CODEINE
Alkaloids and Salts.

Opium and all Opium Derivatives.

WHIFFEN & SONS, LTD., BATTERSEA, LONDON, S.W. 11.

Telegrams: "WHIFFEN LONDON."

Telephones: 254, 255 BATTERSEA.

Codes for Telegraphing: A B C, Lieber's.

Whiffen & Sons, Ltd., are
sole Consignees of the

Mysore
Government

Standard Product.

Complies with requirements of all
Pharmacopœias.

Samples can be had upon application to—

SODIUM PHOSPHATE B.P.

RECRYSTALLISED & EXSICCATED.

PROMPT DELIVERIES FROM THE WORLD'S LARGEST MAKERS—

VICTORS Ltd., 16 DEANS_GATE, MANCHESTER.

Works at St. HELENS & STALYBRIDGE.

LONDON: 23-26 ST. DUNSTON'S HILL, E.C.3.

COD LIVER OIL

EMULSIONS

25 %, 33 %, 50 %,
IN BULK.

E. H. BUTLER & SON, Manufacturing Chemists
93 Humberstone Gate, LEICESTER.

Swiss Aniline Colours.

J. R. GEIGY, S.A.,
Basle - Switzerland

are makers of

ACID REDS, YELLOWS and ORANGES
METHYLENE BLUES SPIRIT BLUE
NIGROSINES. TANNIC ACID

Agents

E. H. BUTLER & SON, LEICESTER.

THE CLAYTON ANILINE COMPANY, LTD.

68½ UPPER THAMES STREET, LONDON, E.C.4.

CHEMICAL
DEPARTMENT

"CIBA"



BRAND

PURE "CIBA"
PRODUCTS

Telegrams:
"CIBADYES, CANNON, LONDON."

Telephone:
CENTRAL 4485.

CONSULT US ABOUT
PHARMACEUTICAL AND PHOTOGRAPHIC
CHEMICALS

OF THE WELL-KNOWN "CIBA" BRAND FOR
WHICH WE ARE SOLE CONCESSIONAIRES

ALL BUYERS ARE INVITED TO

WRITE US

PHONE US

WIRE US

OR

VISIT US

SO LONG AS THEY CONSULT US

BEFORE PLACING THEIR ORDERS

SPOT OR FORWARD

CHLORAL HYDRAS.

VERONAL

GUAIACOL CARB.

PHENAZONUM

HYPO.

PYRAMIDON

ANY QUANTITY

PHENOLPHTHALEIN

METAGOL

TANNIN ALBUMINAS

POT. SULPHOGUAIACOL

METHYLENE BLUE

ETC. ETC.

OUR ANNOUNCEMENT NEXT WEEK WILL BE OF
PARTICULAR INTEREST TO RETAIL CHEMISTS

40 Years'

personal knowledge of the best sources of supply and of the requirements of the ultimate consumer enable us to give prompt and economical delivery at Lowest Market Prices.

WHOLESALE ONLY.

FUERST BROS., LTD.17 PHILPOT LANE,
LONDON, E.C.3

Telegrams: "Fuerst, Grace, London."
Telephone: London Wall 4350.

**CHEMICALS, OILS, PRODUCE,
METALS, MINERALS, ACIDS.**

Cream of Tartar, ^{CRUDE & REFINED.} Argols, Wine Lees.
Acetic, Tartaric, Citric, Oxalic, Formic, Salicylic Acids,
Potashes, Alkalies.

Essential Oils, Natural and Synthetic
Perfumes (VANILLIN) Liquorice Juice (Block & Stick)

COAL TAR PRODUCTS.

Aniline Oil, Salts, Colours, Saccharin, Photo Developers.

STONEWARE CHEMICAL PLANT

As supplied to H.M. Government.

ACETIC ANHYDRIDE

AND ALL

FINE CHEMICALS**V. C. NORTH & CO.**

76 FINSBURY PAVEMENT, E.C.2.

Phone: Wall 7781. Telegrams: "Hydracetol, Phone, London."


**R. T. DUN THE ORIGINAL
MAKER**

Invites Inquiries for all
kinds and quantities of

Hand-Made Gelatine Capsules

FOR HOME OR EXPORT
Sandal. Oil Capsules a Speciality

5 OSWALD ST., GLASGOW

GOLD  **MEDAL**
LONDON 1913

THE NON-IRRITANT
LOCAL ANÆSTHETIC.

NOVOCAIN

DOES NOT CONTAIN COCAINE.
*The original preparations as supplied by us
for the past 12 years.*

**Medical and Dental Tablets
and Powder.**

No Home Office Permit necessary.

THE SACCHARIN CORPORATION LTD.
Pharmaceutical Department,
36, 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.4.

Contractors to:-
WAR OFFICE. CANADIAN GOVERNMENT. BRITISH RED
INDIA OFFICE. FRENCH GOVERNMENT. CROSS SOCIETY.
CROWN AGENTS. BELGIAN GOVERNMENT. FRENCH RED
for the COLONIES. ITALIAN GOVERNMENT. CROSS SOCIETY.
ETC. ETC.

Phone: Holborn 1640 and 1641. Established 1898. Telegrams and Cables: Americus London.
THE AMERICAN COMMERCE CO. LTD.
19, ST. BRIDE STREET, LONDON, E.C.4.
NEW YORK. MILAN. PARIS. PETROGRAD.

ANTIPYRINE**PYRAMIDON****TRIONAL****SULPHONAL****METOL 100 %
pure**

(FRENCH CODEX)

ACETANILID

188A/19.

THE ANGLO-FRENCH DRUG CO., Ltd.

238a Gray's Inn Road,
London, W.C.1.

Telephone: HOLBORN 1311.

New York: 1270 BROADWAY.

Montreal: DANDURAND BUILDING.

Paris: RUE CLAUZEL.

Telegrams: "AMPSALVAS LONDON."

Bombay: P.O. BOX 460.

West-End Depot: MODERN PHARMACALS (Managing Director, J. G. GORDON, M.P.S.), 48 Mortimer St., W. 1.
Telephone: MUSEUM 564.

SPECIAL PHARMACEUTICAL PREPARATIONS.

AMIBIASINE.

Compound Extract of Garcinia.
Treatment of Amoebic Dysentery,
Diarrhoea, Enteritis, &c.

BIOSULFOL.

Assimilable Sulphur Colloid.

Entirely absorbed.

For Chronic Mucous Affections,
Rheumatism, Skin Diseases, &c.

CUPRASE.

Specially prepared CHEMICAL

Colloidal Copper for CANCER.

Has given most encouraging re-
sults in a good number of cases.

CRYOGENINE.

A general Antipyretic and power-
ful Analgesic.

Supersedes Antipyrin, Phen-
acetin and Pyramidon.

DIABETIFUGE.

A successful Anti-Diabetic.

Gives most satisfactory clinical

results (formula given).

Administered in Cachets.

Tested as per L.G.B. Regulations

GALYL.

(Safe substitute for Salvarsan.)

Intravenous and

Intramuscular.

Malta Fever, Malaria,

Framboesia, Sleeping Sickness,
SYPHILIS.

HECTARGYRE.

A combination of Hectine with

Mercury.

Intramuscular Injection; also i

Pills and Drops.

KINECTINE.

A Quinine Salt of Hectine. Pro-

phylactic and Curative for Hay

Fever, Rhinitis, Influenza.

In Tablets.

MERSALV.

A fine Mercurial Cream.

Contains 10 per cent. Metallic

Mercury.

A non-greasy preparation,
entirely and quickly absorbed.

OPOLAXYL.

For Constipation. A combina-
tion of pancreatic, biliary, and
intestinal secretions. A normal
regulator of the intestinal func-
tions. Tablets.

URASEPTINE.

Composed of Urotropine and

Helmitol.

A powerful Urinary Antiseptic.
Dissolves and eliminates Uric
Acid.

TWO GOOD LINES.

AMBRINE

Ambrine is the Only Authorised Preparation of
Dr. Barthe de Sandfort. We are compelled to state
this, as there are various imitations.

OVER

30%

PROFIT

OVER

30%

PROFIT

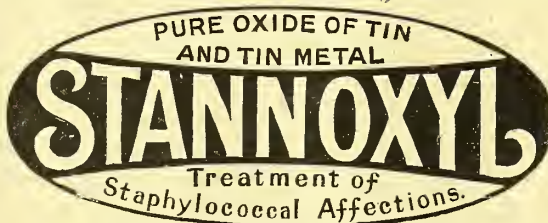


SHOW THESE ON YOUR COUNTER,
THE SALE IS CERTAIN.

Special Visit to Military Hospitals in France.

"Here we saw some wonderful cases of burns treated with
Ambrine; the effect seems to be practically to provide the patient
with a new skin, to say nothing of a fresh complexion."

—The Nursing Times



(An Oxide of Tin and Tin Metal Free from Lead.)

"A Scientific production the value of which has been studied
very closely. The effect is very prompt; from the second day of
treatment the pain is relieved.

In the majority of cases definite results are obtained within five
or six days; it is seldom necessary to take the full ten days'
treatment, and relapses are unknown.

FULL PARTICULARS
ON APPLICATION.

C
A
C
O
D
Y
L
A
T
E

O
F

S
O
D
A

BRANDS

ETNA
AMARELLI
BARRACCO
CARAFA
DISURDO
SOLAZZI
VESUVIO
ZAGARESE, &c.

LIQUORICE STICKS
GUARANTEED PURE.

Manufactured from the Sweet Cultivated Root only.

It is the pleasant flavour of the Sweet Root which commands the largest sale.

Apply to the DIRECT SHIPPERS—

DELIVERY

ON SPOT
U.K. PORTS
C.I.F. AND
F.O.B. FOR
EXPORT.

LINTON, HUBBARD & ANDREW, 72-75, LONDON, E.C.3.

Telephone: 1392 Avenue.

A B C and Lieber's Codes.

Cables and Telegrams: "LINTEOLO LONDON."

EUCALYPTUS OIL
(RECTIFIED).

Eucalyptol Content ... 70/80 %
Optical Rotation... 0 to 1
Specific Gravity ... 919 to 928
Absolutely Free from Phellandrine.
Quotations by Cable. Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.

New Postal Address— Cables—"Burnside Company,
591-5 Bourke St., Melbourne. Melbourne."

EUCALYPTUS OIL
CLARKE & CO. PTY. LD.

Established 1858.

275/279 & 281 Lonsdale St., Melbourne, AUSTRALIA

Cable Address: "CROCKERY," Melbourne (all Codes).

Also at 73 & 74 CHISWELL ST., LONDON, E.C.1

Telephone: London Wall 4693.

*Exporters of all classes of
Eucalyptus Oil in any quantity.*

Write or Cable us for quotations, C.I.F. your port.

References:—

National Bank of Australasia, Ltd., Melbourne and London.

CHAS. HAMSON & CO.

Drug, Oil & Chemical Merchants,
46 COWGATE, PETERBOROUGH.

Acid Boric Pulv. ...	cwt. @ 88/6	
Acid Tartaric Pulv. P.B. ...	11lb. 3/7 14 lbs. @ 3/6 1/2 per lb.	
Acid Carbolic Liq. P.B. ...	1/7 21 lbs. @ 1/5 1/2 "	
Boric Pulv. ...	cwt. @ 49/6	
Camomile Flowers, New Crop	1 lb. 2/6 7 lbs. @ 2/5 "	
Cera Flava 1 oz. & 1 oz. Tabs.	1 lb. 2/9 14 lbs. @ 2/8 "	
Creta Præcip. Levig. ...	14 lbs. @ 4d. 1 cwt. @ 35/6 "	
Chloroform P.B. ...	1 lb. 4/10 7 lbs. @ 4/9 "	
Gentain, Rad. Pulv. Vet. ...	28 lbs. @ 11d. 1 cwt. @ 55/-	
Glycerin 1'260. ...	28 lbs. @ 1/5 per lb.	
Hydrogen Perox., 20 vols. ...	1 gall. Stone S/S Bots. 8/- gallon.	
Magnes. Sulph. P.B. Major Xtals. 14 lb. 4d. 1 cwt. @ 32/0 1/2		
Magnes. Sulph. Druggists' B.P. 23 lbs. @ 3d. 2 cwt. @ 22/6 cwt.		
Ol. Anisi P.B. "China Star" 11lb. 5/10 164 lbs. @ 5/8 1/2 per lb.		
Ol. Eucalypti P.B. 70% ...	8/2 23 lb. @ 3/1	
Ol. Limonis P.B. Messina ...	11lb. free bts. 6/7 lb. 6 bts. @ 6/6 1/2 "	
Ol. Menth. Pip. Japan Dementh. 5 lb. Tins @ 6/9 per lb.		
Ol. Morrhuæ Norwegian ...	gall. 24/6 5 Galls. @ 24/-	
Ol. Oliva. Cream Edible ...	20/6 5 " @ 20/- "	
Ol. Oliva. Fine B.P. ...	19/6 5 " @ 19/- "	
Ol. Ricini. P.B. Pharmaceutical ...	1/6 lb. 5 galls. @ 1/5 per lb	
Ol. Ricini. "Firsts" ...	1/4 5 " @ 1/3 "	
Potass. Bicarb. Pulv. B.P. ...	lb. 1/9 7 lbs. @ 1/8 "	
Potass. Iodidi Xtal. B.P. ...	17/9 5 " @ 17/7 "	
Potass. Nitras. Brandram's, Gran. ...	8d. ... cwt. @ 67/6	
Potass. Prussiate Flava ...	7 lbs. 3/1 per lb.	
Sal. Ammoniac Gran. ...	1 lb. @ 9d. ... cwt. @ 82/-	
Sem. Linl. Screened ...	23 lbs. @ 9d. lb., cwt. @ 66/-	
Sem. Linl. B.P. Crushed ...	23 lbs. 9d. cwt. @ 66/-	
Sodium "Hypo" Pea Xtals. 1 cwt free kegs 29/-		
Sulphur Sicilian Flowers ...	cwt. @ 33/- 2 cwt. Sacks 32/-	
Ung. Acid Boric. B.P. ...	7 lb. Free Tins 1/8 per lb	
Ung. Sulphuris. B.P. ...	7 lb. Free Tins 2/11 "	
Ung. Zinci. B.P. ...	7 lb. Free Tins 2/9 "	

NETT. Without Engagement. Carriage Paid on Orders of £10 and upwards. Containers charged, but returnable. 1 1/2% discount for CASH WITH ORDER.

All goods guaranteed to be as stated.
Please quote Reference B 3940. Telephone 50.

EUCALYPTOL (CERNOL),
B.P. STANDARD.

PEPPERMINT-KETONE
AND

All Grades Eucalyptus Oils
Large Stocks always on hand.

GILLARD GORDON, LTD.
SYDNEY - AUSTRALIA.

*Largest Actual Distillers of
Eucalyptus Oil in Australia.*

Cable ... "Gillard Gordon, Sydney."

FOR
Acids SULPHURIC
HYDROCHLORIC
NITRIC

Resorcin
Mercurials
Cascara Bark
Saccharin
Chloral Hydrate

Ask BERK

F. W. BERK & CO., Ltd.

1 FENCHURCH AVENUE, LONDON.

Works—STRATFORD and MORRISTON.

Telephone: 4032 Ave. Telegrams: "Berk, Phone, London."

ENGLISH B.P. BENZOIC MANUFACTURES.

ACID BENZOIC. AMMON. BENZOATE.
LITHIUM BENZOATE. SODA BENZOATE.

SUPERFINE QUALITIES.

BENZOATES, Ltd. PHONE: L.W. 7781.
76 Finsbury Pavement, LONDON, E.C.2.

SAPONINE

(SOLUBLE),

MANUFACTURED BY

C. W. FIELD, LTD.,
Cambrian Mills, LIVERPOOL.

Special Terms to Wholesalers and large Consumers.

Alliance Drug & Chemical Co. London

Offices: 34 LEADENHALL STREET.

NOTE.—Only term, Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

- Acet. Ipecac., B.P., 6 lbs. @ 24 lb.
- Scilla, P.B., 6 lbs. @ 24 lb.
- Acid. Acetylo-Salicyl. 1 lb. @ 6/6 lb.
- Benz., B.P., 1 lb. @ 7/6 lb.
- Boric Pulv., 3 cwt. @ 85/- cwt.; 1 cwt. @ 86/6 cwt.; levigd., cwt. or lb. extra.
- Camphor, English Flowers, "not artificial," 5 lbs. @ 17/6 lb.; 1/2 oz. or 1/4 oz. 7 lbs. @ 18/- lb.
- Op. Aloes Co. Conc. 1-2, 6 lbs. @ 2/6 lb.
- Sinacroc., 6 lbs. @ 1/9 lb.
- Cinchona (Ribba) Conc. 1-7, 5 lbs. @ 3/-
- Senega Conc. 6 lbs. @ 5/3 lb. [1 lb.]
- Calamba Conc., 1 to 7, 6 lbs. @ 1/10 lb.
- Caryoph. Conc., 1 to 7, 6 lbs. @ 2/4 lb.
- Cascarilla Conc., 1 to 7, 6 lbs. @ 3/6 lb.
- Cinchona Acid, 1 to 7, 6 lbs. @ 1/3 lb.
- Gentiana Co., 1 to 7, 6 lbs. @ 1/3 lb.
- Quassia Conc., 1 to 7, 6 lbs. @ 3/- lb.
- Ruel Conc., 1 to 7, 5 lbs. @ 3/4 lb.
- Rosa Acid, Conc., 1 to 7, 6 lbs. @ 3/4 lb.
- Senega Conc., 1 to 7, 6 lbs. @ 5/- lb.
- Valerian Conc., 1 to 7, 6 lbs. @ 2/11 lb.
- Ammoni. Acetatis Conc. 1-7, 6 lbs. @ 1/10 lb.; 1 lb. @ 2/2 lb.
- Ammon. Aromat., 6 lbs. @ 1/2 lb.
- Syr. Aurant., P.B., 7 lbs. @ 2/2 lb.
- Easton, B.P., 7 lbs. @ 2/2 lb.
- Ferri Iodid, P.B., 7 lbs. @ 1/9 lb.
- Ferri Phosph. Co., 7 lbs. @ 13/4 lb.
- Hypophosph. Co., B.P.C., 7 lbs. @ 1/10 lb.
- Pruni Virg., B.P., 7 lbs. @ 1/5 lb.
- Rhamni, 7 lbs. @ 1/6 lb.
- Rhei, B.P., 7 lbs. @ 1/6 lb.
- Scilla, P.B., 7 lbs. @ 1/- lb.
- Senna, P.B., 7 lbs. @ 1/6 lb.
- Tolut, P.B., 7 lbs. @ 1/3 lb.

* Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

Telephones:
(Head Office),
AVENUE 1729 (3 lines).
(General Chemical Dept.),
AVENUE 6998 (2 lines).

CHAS. PAGE & CO., Ltd.,

Telegrams:
"PAGANINI
LONDON."

**47/51 KING WILLIAM STREET,
LONDON, E.C.4.**

SODIUM :

ACETATE,	BISULPHITE,
CHLORATE,	FLUORIDE,
FORMIATE,	HYPOSUL-
NITRITE,	PHITE,
PHOSPHATE,	PRUSSIATE,
SALICYLATE,	SULPHIDE,
SULPHITE,	TANNATE.

LITHOPONE.

NITRO BENZOL.

NAPHTHALINE (Flake, Nitro, Marbles).

ANILINE SALT.

LEAD :

ACETATE,	ARSENATE,
NITRATE,	RESINATE.

POTASH :

CHLORIDE, CHLORATE,
CARBONATE, PERMANGANATE,
PRUSSIATE (Yellow & Red).

ZINC :

CHLORIDE,	SULPHATE,
OXIDE,	CARBONATE.

PRECIPITATED CHALK.
GUIGNET'S GREEN.
ANILINE COLOURS.
COALTAR INTERMEDIATES



Johnson's

"SCALES BRAND"

Silver Salts

SILVER ALBUMENATE
SILVER LACTATE
SILVER PROTEINATE

SILVER COLLOIDAL
SILVER NUCLEINATE
SILVER NITRATE Recryst. and Fused

Price List of "Scales Brand" Chemicals post free on Application.

JOHNSON & SONS MANUFACTURING
CHEMISTS, LTD.
Cross Street, Finsbury, LONDON, E.C. 2.

FRENCH CHALK

ALL GRADES. STOCKS KEPT.

SAMPSON & WHITE, Ltd., 6 Holborn Viaduct, London, E.C.1.

GUMS

IMPORTERS—FIRST-HANDS!

ALBERT J. TAYLOR & Co.

30 Great Tower Street, London, E.C. 3. Established 1884.

Phone—Central 207. Telegrams—"Albert Taylor, Bilgate, London."
Cables—"Tazadoras London." Code: ABC (5th edition.)

PATTINSON'S MAGNESIA

PROMPT AND FORWARD DELIVERY.

SOLE MANUFACTURERS:—

THE WASHINGTON CHEMICAL COMPANY, LIMITED,
WASHINGTON STATION, COUNTY DURHAM, ENGLAND.

SALICYLIC ACID,
B.P.

SODIUM SALICYLATE,
B.P.

HOLT, THOMPSON & CO.

(LIMITED)

Fine Chemical Manufacturers,

Manesty Buildings,

College Lane, **LIVERPOOL.**

Works: Binns Road, LIVERPOOL.

Telephones { Offices: Royal 2060. Telegrams: "Salol Liverpool."
 { Works: Old Swan 413.

ACETIC ACID

(Canadian Product)

Re-distilled
and
Technical

**A. Boake Roberts
& Co., Ltd.**

**Stratford, London,
E. 15.**

**Johnson, Matthey
& Co. Ltd.**

*Melters and Assayers to
The Bank of England the Royal Mint, etc.
Metallurgical Chemists, etc.*

PERFECT PHOTOGRAPHIC EMULSIONS

depend on the purity of their ingredients.

NITRATE SILVER

is the most important of these, and it happens also to be very sensitive to contamination.

A wide margin of safety has therefore always been our principle in manufacturing it. First, throughout the whole of our processes we use exclusively vessels made of Gold and Platinum. Secondly, all our first crystals are twice redissolved and recrystallised. Thirdly, every batch of final crystals is tested before passing into our stock.

Our guarantee of highest purity is thus assured.

Competitive Quotations on request.

Mark indents "Johnson, Matthey's."

None genuine if not labelled with our name & Trade Mark

Cables—"MATTHEY LONDON" (all Codes used)
Telephone—9740 City (6 lines).

73-82, Hatton Garden

LONDON E.C.1

Established over 100 Years

Telephone
9740 CITY
& Lines

JOHN MURDOCH & CO.

(LATE OF 52 LEADENHALL STREET)

**7 UNION COURT,
OLD BROAD STREET,
LONDON, E.C. 2.***Cable Address :
"Otoscope London."**Tel:phone No. :
London Wall 9226.*

**BUYERS ON COMMISSION OF
Drugs, Chemists' Requirements, Drapery,
Stationery, Jewellery, Silver and Electro-
plate Goods, Hardware, &c.**

Goods carefully selected from
Manufacturers and Dealers.
Expert knowledge of Best
Sources of Supply.

Business from Wholesale
Merchants and General Stores
of undoubted standing only
entertained.

British Merchants Incorporated, Ltd.

37 Eastcheap, LONDON, E.C.3

Telegraphic Address: "STRIKINGLY LONDON."

OFFICES AT

**LIVERPOOL, MANCHESTER, GLASGOW,
PARIS & NEW YORK.**

EXPORT-IMPORT.

*Drugs, Chemicals and
Pharmaceutical Products.*

Cream of Tartar Tartaric Acid

*Quotations given on application.**Special Offer this issue*

IRISH MOSS

CHLORIDE BARIUM.
OXALIC ACID.
ACIDS FOR EXPORT.FORMIC
ACID.
GUM
TRAGA-
CANTH.CHROME OXIDES.
GUMS AND WAXES.
GELATINES.GLUES.
INKS,
SEASONS,
FINISHES.GUM
ARABIC.BORAX.
BORIC
ACID.LOGWOOD
PRODUCTS
BICHROMATES.SODA
HYPO.DYE-
WOOD &
TANNING EXTRACTSOILS, CHROME AND
FAT LIQUORS.**CHEMICALS****CHEMICALS****GOUGH, KIDSTON & CO.****12 BERMONDSEY SQ., LONDON, S.E.**

City Office: 43-45 Great Tower Street, E.C.

Tel. Add.: "Oughidston, Phone, London," Phone: 2029 Hop.

Telegrams: "Agenticum, Grace, London."

Telephone: Avenue 1098 (2 lines)

A. JOHNSON & CO. (London), Ltd.

3 GRACECHURCH STREET, LONDON, E.C. 3

Creosote Medicinal Oil of Lemon

PHENAZONE
VERONAL
HEXAMINE
GUAIACOLS

ACID PYROGALLIC
CALCIUM LACTATE
TRIOXYMETHYLENE
SILVER SALTS

*The services of our Technical Staff are
freely placed at the disposal of our clients
where such assistance or advice is desirable.*

BRANCHES:

Stockholm. Malmo. Gothenburg. Copenhagen. Paris. New York.

ORTHO - OXYQUINOLINE SULPHATE "SUPEROL"

Registered Sale Name
In Powder, Granulated and Tablets.

A MOST EFFECTIVE NON-POISONOUS
ANTISEPTIC & DISINFECTANT.

Sole Makers:-

AMSTERDAM SUPERPHOSPHATE WORKS,

UTRECHT (HOLLAND).

Sole Agent for SUPEROL for the United Kingdom:-

K. RAYMENT, 2 Broad Street Place, LONDON, E.C. 2

Phone: London Wall 4688

Pyrogallic Acid Gallic Acid

Manufactured by J. L. ROSE,

At ABBEY ROAD, BARKING, LONDON, E.

Wholesale and Export only.

JOY'S MEDICINAL CAPSULE CO.

Wholesale Manufacturers

OWN MATERIAL FILLED IF REQUIRED.

Address- 23 WILSON STREET,

— GLASGOW —

CELLULOSE ACETATES.

CALCIUM CARBIDE.

POWDER ASPIRIN (B.P.) TABLETS

ACETIC ACID.

ACETIC ANHYDRIDE.

IMMEDIATE DELIVERY of the above by the MANUFACTURERS—

The BRITISH CELLULOSE & CHEMICAL MANUFACTURING CO., Ltd.,

8 WATERLOO PLACE, LONDON, S.W. 1.

WORKS: SPONDON, DERBY, AND WILLEDEN

Telephone: REGENT 4045.

Telegrams: "CELLUTATE LONDON."



SACCHARIN 550
COUMARIN 100%
VANILLIN 100%

**READY
ON
SPOT.**

APPLY TO DIRECT SHIPPERS—

LINTON, HUBBARD & ANDREW, 72-75 Fenchurch St., London, E.C. 3

Telephone: 1892 Avenue.

A B C and Lieber's Codes.

Cables and Telegrams: "LINTEOLO LONDON."

ASPIRIN TABLETS.

Every tablet guaranteed to contain 5 gr. PURE ASPIRIN, B. P., m.-p. 135.5, as supplied by us on contract to Allied armies. Packed for the trade, in unlabelled bottles as follows:—

25s—4/6 per doz. 50s—8/3 per doz. 100s 14/9 per doz., bulk 8/9 per 1000

(STOCK LABELS SUPPLIED IF DESIRED)

ASPIRIN, B.P., superfine quality, 7/6 per lb. Special quotations for quantities. Send for samples.

THE KEENE COMPANY, MANUFACTURING CHEMISTS,

52 Gray's Inn Road, LONDON.

335 Broadway, NEW YORK.

11 Rue Condorcet, PARIS.

Contractors to His Majesty's War, India and Munitions Departments. Contractors to The Allied Government's Military Hospitals. Members of American Chamber of Commerce in London. Members of London, British and Latin-American Chambers of Commerce.

CARAMEL COLOURING

(Sacch. Ust.)

For ALL PURPOSES.

**PERFECT PURITY.
Highest Colour Value.**

IMMEDIATE DELIVERY to Manufacturers and Wholesale buyers only.

E. J. HAY & CO.

THE Caramel Specialists,

Essex Wharf, Limehouse, LONDON, E. 14.

AND

104 Sackville Street, MANCHESTER.

DAMANCY & CO.

HARROW-ON-THE-HILL.

TABLET & PILL MAKERS to the TRADE

Have fitted up further premises for the Manufacture of

TABLETS AND PILLS

from Wholesalers' own materials, or from material to be quoted for and supplied. Finest up-to-date plant. Make and Finish of highest class.

Low Quotations.

GUARANTEED

SACCHARIN TABLETS

Quantity.	½ grain.	½ grain.	½ grain.
1-lb. ...	45/-	34/-	27/- per lb.
10,000	6/6	5/-	4/- per 1,000
100's, boxes	8/-	6/-	5/- per doz.
	Cash with Order.		Window Bills Free.

HYGIENIC TESTS FREE

With every order to the value of £5, we pack 6 dozen Transparent Hygienic Tests as Bonus, and a smart BUSINESS-PULLING WINDOW SHOW in addition to Bonus Tests.

WALTON, Chemist, BATLEY.



WE ARE ACTUAL MAKERS OF
ACETYL-SALICYLIC ACID of Super B.P. Standard,
and Physiologically Pure **SODIUM SALICYLATE, B.P.**

BOTH OF WHICH ARE ISSUED IN
BRANDED ORIGINAL PACKAGES.

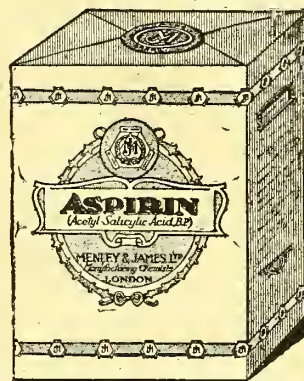
We compress our Branded Aspirin into 5-grain
Tablets without the addition of talc or boric acid,
and pack for Chemists' own name trade.

Bottles of 25 Tablets	...	...	4/6	per doz. net.
" " 50 "	...	...	7/6	" " "
" " 100 "	...	...	13/6	" " "
Bulk, 1000—8/6	...	...	500 at 8/3	per 1000 net.

Carriage is paid on minimum net orders of 40/-, and name and
address printed on 6 dozen bottles and upwards. May we have
a share of your business?

A Chemist writes: "Your Aspirin Tablets are, in my estimation,
the finest I have ever had, and I am getting repeats by post from
all over, recommended by my customers."—M.P.S.

MENLEY & JAMES, LTD., "Menley House,"
FARRINGTON ROAD, LONDON, E.C.



K 14

CINNAMON AND QUININE TABLETS.

For lowest
prices apply

**THE COOPER
LABORATORY,
WATFORD.**

ESTABLISHED 1871.

Telegraphic Address:
"Toothache Sheffield."

BRITISH Aspirin Tablets

9/- per 1000

Each tablet contains 5 gr. B.P. Aspirin.
As supplied by us to the Military Hospitals.
Bottles—25s, 4/6; 50s, 8/-; 100s, 14/9.

BRITISH Saccharin Tablets

3 grain 550 in 1.

In packets or bottles of 100, 200 or 500, and in
Bulk. Special quotations for quantities.

All drugs are tested, and tablets made in our
own factories, and guaranteed by

G. CARR & CO. Ltd.

Manufacturing Chemists,
Wilkinson Lane - SHEFFIELD.

Season—1919.

**COD LIVER OIL****GUARANTEED GENUINE.**

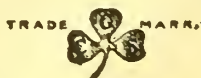
Manufacturers:

BRØDR. AARSÆTHER A/S, Aalesund, Norway.**Wholesale only.****No Retail Orders Executed.****Agents: FREUDENTHEIL & CO.** 21 Mincing Lane,
LONDON, E.C.3.

Tel. Add.: "FREUDENRUF."

Codes used: A B C, 4th & 5th Edit.; and Private.

Tel. 12513 Central.

**G. C. Starup's Danish Cheese
RENNET EXTRACT**

STARUP'S REAL DANISH CHEESE RENNET EXTRACT is guaranteed to be made from finest calf vells only, and does not contain Pepsin or other kind of substitute.

Chemists and Druggists, please ask for G. C. Starup's real Danish Rennet Extract, Annatto Cheese Colour and Butter Colour.
PRICES ON APPLICATION.**G. C. Starup's Chemical Works, Copenhagen, K., Denmark.**Telephone:
Central 10238.Telegrams:
"Diluggo, Bilgate, London."**CHARLES LANE & SONS**

7 & 8 Idol Lane, LONDON, E.C.3

**NEWFOUNDLAND
NON-FREEZING
COD LIVER OIL
FINEST - MEDICINAL.****GELATINES****SAMPLES AND QUOTATIONS
FOR WHOLESALE QUANTITIES.***Fine Pharmaceutical and
Heavy Chemicals.***LOOK for
this Mark****Birks's Junket
Powder****Rennet in Dry Powder form**

Awarded the Certificate of the Institute of Hygiene, and the purest form of Rennet in existence. Our advertising to the public through the medium of the principal magazines is creating a big demand. It will add to your prestige and profit if you order a supply without delay.

EDWARD BIRKS & SON**CROWN WORKS
HARROW MIDDLESEX**

Samples, Prices and Terms on Request.

Telephone: Harrow 684.

CROSFIELDS' CHEMICALLY PURE GLYCERINE. PYRAMID BRAND.



The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14 $\frac{1}{2}$, 28 $\frac{1}{2}$ & 56 $\frac{1}{2}$ TINS. (WOODEN CASES.)
1, 2 $\frac{1}{2}$, 5 & 10 CWT. DRUMS. (RETURNABLE)

JOSEPH CROSFIELD & SONS LTD - Chemical Manufrs. WARRINGTON.

1919 Jensen's 1919

ICE-REFINED

New Season's NORWEGIAN COD LIVER OIL

DELIVERY EX STOCK.

SAMPLES AND PRICES:—HERTZ & CO., 9 Mincing Lane, E.C.3

AGENT FOR SCOTLAND:—

Mr. W. B. RODGERS,
69 St. George's Mansions, Charing Cross,
GLASGOW.

AGENT FOR IRELAND:—

Mr. JOSEPH M. MAIBEN,
11 Westland Row,
DUBLIN.

McKESSON & ROBBINS

Established 1833

INCORPORATED

McK&R

NEW YORK, U.S.A.

SOLICIT INQUIRIES FOR

Cascara Bark**Senega Root****Jalap Root****Peppermint Oil****Spermaceti**

Foreign Distributors for

The

New York Quinine and Chemical Works
LimitedMakers of
QUININE STRYCHNINE
ACETANILIDE, Etc.**Broker and Commission Merchant**

FOR ALL CLASSES OF

FINE & HEAVY CHEMICALSDrugs, Acids, Gums, Colours,
Seeds, Spices, Waxes.**RAW MATERIALS**

FOR

Pharmacy and the Perfumery Industry.

EXPORTER OF

French, Spanish and Italian
BOTANICAL DRUGS & CHEMICALS**BUYING AGENT**
for Leading Houses.*Supplier to the French & American Red Cross.*

MAISON FRANCOIS BITTNER

R. BUDDENSIEG

201 Boul. Malesherbes, PARIS.

Telegrams: "Bittner, Paris."

QUININE ETHYL CARB.**PHENACETIN B.P.****ASPIRIN B.P.****VANILLIN 100%****ON SPOT.**

F.O.B. and C.I.F. Prices Quoted.

**For all Fine and
Heavy Chemicals.****SOCIÉTÉ COMMERCIALE BEATLEY,**
99 Fenchurch Street - E.C.3.PHONE

823	}	AVENUE.
824		
3425		

SPOT, NEAR AT HAND, FORWARD

ALBUMINE TANNATE
ANTIPYRINE & SALTS
ATOPHANE
BENZONAPHTHOL
CHLOROPHYLL
CREOSOTE CARBONATE
DIACETYLTANNIN
DIETHYLBARBITURIC ACID
GUAIACOL LIQUID
GUAIACOL CARBONATE
HEXINE CITRATE

HEXINE CRYSTALS
METHYLSULFONAL
METOL
NAPHTHOL SALICYLATE
PHENACETINE
PHENETIDINE CITRATE
PYRAMIDON
QUININE ETHYL CARBONATE
SILVER COLLOIDAL
SILVER NUCLEINATE
SILVER PROTEINATE

CHEMICAL WORKS BRUGG Ltd.

BRUGG

(SWITZERLAND)

Pharmaceutical, Technical and Photographic Chemicals

Acetamidosalol	Diamidophenol hydrochlorate	Ethyl paramidobenzoate
Acid Diethylbarbituric	Monomethylparamidophenol	Menthol valerianate
Acid Phenylquinolinecarbonic	sulphate 100 %	Guaiacol carbonate
Antipyrine and salts	Chlorophyll	Quinine ethyl carbonate
Benzonaphthol	etc.	Silver and salts
Diacetyltannin		Thymol iodide
Chinosol		Methyl sulfonal

Essences

Essential Oils	Synthetic and Flower Essences
Drugs and Colouring Matter	Fruit Ethers

REPRESENTATIVES FOR GREAT BRITAIN

W. SUTER & CO., 12 Edmund Place,
Aldersgate Street, **LONDON, E.C.1.**

Telephone : CITY 8237

STOCKS HELD FOR SPOT DELIVERY

British Firms dealing in Drugs, Medicines, Perfumery, wishing to do wholesale business in

FRANCE

should not fail to consult Messrs. A. W. B. Scott, 38 Rue du Mont-Thabor, PARIS, a British Firm established over twenty years, doing the biggest business in English specialities in FRANCE, and known to every Chemist in that country.

Messrs. A. W. B. SCOTT do very considerable advertising in the French Press. The Firm has four provincial and two Paris travellers—thus ensuring that any goods handled are constantly placed before the retail chemist. a

Mr. A. W. B. SCOTT will stay at the SAVOY HOTEL, LONDON, from 1st to 15th October, for the purpose of getting into touch with any Firm interested. Interviews can be arranged from now onward.

A. W. B. SCOTT, Pharmacien-Droguiste, 38 Rue du Mont-Thabor, PARIS.

Viuda de José Solernou

Diputacion 164, Barcelona, Spain.

AGENCY & REPRESENTATIVE HOUSE. ESTABLISHED IN 1875.
Member of the British Chamber of Commerce at Barcelona.

AGENCIES WANTED FOR GOOD-CLASS CHEMICAL AND PHARMACEUTICAL SPECIALITIES.

THE DROGUERIE CENTRALE D'ORIENT, LTD.

Sirkedji, CONSTANTINOPLE.

■ ■

The only British Firm for the drug trade, desiring to introduce to the Near East the best British Manufactured Drugs invites important and real Manufacturing Firms to send their Price Lists and conditions.

T. M. THAKORE & CO.,

Manufacturers' Agents & Representatives & Importers,
36 Churchgate Street, Fort, Bombay.

**DRUGS, CHEMICALS, PATENT & PROPRIETARY
:: MEDICINES, DRUGGISTS' SUNDRIES, etc. ::**

Telegraphic Address: "SADGUN BOMBAY."

Telegraphic Address: "SIBER."

Siber, Hegner & Co.

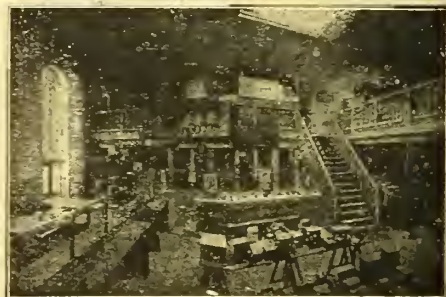
Yokohama, Tokyo, Kobe,
Zurich (Switzerland).

Established in Japan since 1866.

**General Export, Import
AND
Commission Merchants.**

SPECIALITIES:

Fine and Heavy Chemicals.



VIEW IN OUR STOREHOUSE.

DOES DUTCH BUSINESS INTEREST YOU?

If so, write to
Firma B. MEINDERSMA, The Hague,
HOLLAND (Branch Office at Sneek).
a strictly Dutch firm, with a view of entrusting them with your

Sole Agency for this Country.

They claim to be one of the leading Dutch Wholesale Houses for Proprietaries, Druggists' Sundries, Toilet Articles and Soaps, and have represented important English Houses for many years before the War. Please send your offers, with samples; they will be dealt with without delay.

L. Rozen & Co.

36/37 MINCING LANE, E.C. 3

*Merchants and Manufacturers.
Crude Drugs, heavy and light
Chemicals, Seeds & Essential Oils*

Telegrams: "Oczeszorle."
Telephones: 3263-4 & 5986 Avenue.

Can offer favourably from stock:

SENNA, TINNEVELLY
and ALEXANDRIAN
HENBANE LEAVES
Egyptian and Russian
GUM ARABIC
LICORICE ROOT
GENTIAN ROOT
ERGOT OF RYE

RUSSIAN:

ANISEED OIL
CALAMUS ROOT
CANTHARIDES
WORMSEED

Theobromine Pure Alkaloid

Caffeine

Theobromine Sodio-Salicylate

(chemically the same as Diuretine).

Societeit voor
Chemische Industrie Katwijk
KATWIJK-AAN-ZEE,
HOLLAND.

'ROCHE' PRODUCTS

ALKALOIDS

ARECOLINE HYDROBROMIDE,
CAFFEINE, PURE and SALTS,
COCAINE HYDROCHLORIDE,
ESERINE SULPHATE and SALI-
CYLATE,
PILOCARPINE HYDROCHLORIDE
STRYCHNINE and SALTS,
THEOBROMINE, PURE and
SALTS.

FINE CHEMICALS

DIETHYLBARBITURIC ACID,
PHENAZONE,
SALIPYRINE,
SILVER PROTEINATE,
TANNIN ALBUMINATE.

Specialities 'Roche'

AIROL,
DIGALEN, IODOSTARIN,
OMNOPON,
SEDOBROL, THIGENOL,
THIOLCOL.

THE HOFFMANN-LA ROCHE
CHEMICAL WORKS LTD.
7 & 8 IDOL LANE, LONDON, E.C. 3.

Warning!

A number of Manufacturing and Retail Chemists
are selling and substituting for

Fellows' Syrup of Hypophosphites

a Compound Syrup of Hypophosphites wrapped in
a manner that closely resembles the *Fellows' Package*.

All persons are hereby warned that legal proceedings will be taken against any imitators, or persons handling imitations, of *Fellows' Compound Syrup of the Hypophosphites*, and against any infringers of its Trade-Mark Rights.

FELLOWS MEDICAL MANUFACTURING CO., Inc.

26 Christopher Street, New York

GOLD MEDALS:
Paris, 1889 and 1900.
GRAND PRIX:
Turin 1911.

FERDINAND ROQUES, PARIS.

"ROQUES" ATROPINE
"ROQUES" COCAINE
"ROQUES" PILOCARPINE
"ROQUES" SPARTEINE

Manufacturer of Pure
Pharmaceutical Chemicals.

ESTABLISHED 1846.

OTHER SPECIALITIES:
Refined Camphor, Iodides, Iodoform, Iodothymol,
Bromides, Bromoform, Bismuth Salts.
OACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR U.K.: W. CHARITY & SONS, 14 Harp Lane, LONDON, E.C.3.

Telephone: Avenue
NO. 2. 4359.

(WHOLESALE ONLY.)

Telegrams: "Charity London."
Codes: A B C, and LIEBER'S.

SILVER PROTEINATE P.G.V.
SILVER NUCLEINATE, 20% and 25%
RENNET POWDER & LIQUID

We have a regular & continuous
output of these preparations.
Please ask for prices.

CHEMICAL WORKS MADOERY, LIMITED,
BASLE, SWITZERLAND.

ALL . . .

Chemicals & Drugs

PHARMACEUTICAL and TECHNICAL.
WHOLESALE and EXPORT
INQUIRIES SOLICITED.

V. A. PICERNO

92 Falcon Road, BATTERSEA, LONDON.

Telephone: BATTERSEA 1612.
Telegrams: "PICERNO, FALCON RD., BATTERSEA, LONDON."

Cable Address
"CELAITCH, NEW YORK."

Codes:
A'B C, Fifth; Bentley's Improved Private.

CHAS. L. HUISKING, INC.

5 Platt Street, New York City,

**BROKERS & COMMISSION MERCHANTS,
DRUGS : CHEMICALS : OILS : Etc.**

*Buying and Selling Agents for leading
Houses in all parts of the World.*

European Manufacturers desirous of placing their goods in the American market would do well to communicate with us. Our outlet for goods is very large.

Weekly Market Reports Mailed on request of WHOLESALE BUYERS only.

INDIAN PRODUCE

First-Hand Supplies.

Shipments direct from India to U.K.

**OILS, OILSEEDS, GROUNDNUTS,
FODDER-CAKE, COPRA, CAPOC,
SPICES, CITRONELLA, etc.**

DE GROOT BROTHERS
Schiedam Holland

IF YOU WANT BUSINESS

in the United States or Canada we can help you. We can also fill your orders for American Drugs and Chemical Products.

SAMSON ROSENBLATT,
89 FULTON STREET, NEW YORK CITY.

TOMODA & COMPANY,

WHOLESALE DRUGGISTS, EXPORTERS, IMPORTERS AND MANUFACTURERS.

OFFICES: Tokyo, Yokohama, Osaka, Dairen (Dalny), Singapore.

FACTORY: Hiranuma, Yokohama.

LABORATORY: Marunouchi, Tokyo.

THE SUPPLIERS OF THE FOLLOWING JAPANESE PRODUCTS:

Ammonia Sulpho-Ichthyol, Agar-Agar, Aniline Oil, Argent Proteinic, Arsenobenzol, Caffein Pure, Camphor, Chalk Precipitated, Chamomile Flowers, Cod Liver Oil, Copper Sulphate, Epsom Salts, Glycerine, Insect Flowers and Powder, Iodide Potass., Iodide Soda, Iodine Pure, Iodoform, Kuromoji Oil, Magnesia Carbonate, Menthol, Menthol Cones, Naphthalin, Neoarsenobenzol, Peppermint Oil, Salicylic Acid, Salicylate Soda, Sulphate Iron, Staraniseed, Talcum, Yellow Prussiate Potass., Zinc Oxide, Ginger, etc. etc. Also Glasswares and Bottles.

Correspondence respectfully invited to

TOMODA & CO., 4-CHOME, HONCHO, NIHONBASHIKU, TOKYO.

FOR
**QUININE
& SALTS**

ALSO

QUINIDINE
CINCHONINE
CINCHONIDINE } AND
SALTS

AND

SUGAR-COATED QUININE TABLETS

MANUFACTURED BY
AMSTERDAM QUININE WORKS,
Wittenkade 48/50, Amsterdam.

APPLY TO
SOLE AGENTS for the UNITED KINGDOM:—

COURTIN & WARNER, 8 Harp Lane,
London, E.C.3.

For samples, prices and particulars.

Telegrams: "Accourtiwa, Bilgate, London."
Telephone No.: Avenue 2220.

**CASCARA
BARK**

K. MALMBERG,

110 Cannon Street, LONDON, E.C. 4.

AND AT NEW YORK

Telegraphic Address:
"Obtempero, Cannon, London."

Telephone No.:
City 6321.

QUININE } AND
SALTS
CINCHONIDINE
CINCHONINE
QUINIDINE

SUGAR-COATED QUININE TABLETS & PILLS,
GELATINE-COATED OVAL PILLS

BANDOENG QUININE FACTORIES

BANDOENG-JAVA.

Telegrams—"Kininefabriek Bandoeng."

AMSTERDAM—Keizersgracht 173

Telegrams—"Schalkwyk Amsterdam."

SOLE AGENTS FOR THE UNITED KINGDOM—

C. M. & C. WOODHOUSE, 30 Mincing Lane, London, E.C.3.

Telegrams—"Palmiste, Telew, London."

SAMPLES AND PRICES ON APPLICATION.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

September 20, 1919.

The following revised prices are now in force:

Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
9d. LOSALL'S Comp. Sulphur Soap	9d. tab.	21/- doz. bxs.
2/3	2/3 (3-tab. box)	21/-
1/3 "MINARET" Ballroom Polish	1/3	10/-

INVITATION.

The Council of the P.A.T.A. hereby heartily invite applications for membership from Manufacturers of Proprietary Articles, and from Wholesale and Retail vendors of the same. Whatever manufacturers' thoughts may have been in the past about the need for price-protection, none but the selfish can now maintain that better profits (assured) are not essential to the conduct of business. The cost of running pharmacies is now greatly increased, and it cannot be wondered at if retailers give the iciest of "cold shoulders" to proprietaries not on the P.A.T.A.

Subscriptions (which run for twelve months from date of joining) are:

Manufacturers	...	£6 6 0
Wholesalers	...	10 10 0
Retailers	...	0 7 6

Crossed cheques or P.O.'s, payable to the Proprietary Articles Trade Association, to be sent to the Secretary, Sir William Glyn-Jones, 113 Temple Chambers, E.C. 4.

ARRIVAL OF LIMITED STOCK OF

After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

PRICES.

Retail.		Trade.
9d.	... ..	7/7 per doz.
1/3	... ..	12/8 " "
2/6	... ..	25/3 " "

Less 5% for payment at 1 month.
£3 and up. carr. paid.

The Trade may therefore now order, through their Wholesalers or direct from

**J. E. CARRATT, 96 Southwark Street,
LONDON, S.E. 1**

SOUTH AFRICA, from Cape Town to the Zambesi**LENNON LIMITED**

*Wholesale Druggists,
Manufacturing Chemists,
Druggists' Sundriesmen.*

Established in—

SOUTH AFRICA

at

CAPE PROVINCE TRANSVAAL

Cape Town	Johannesburg
Port Elizabeth	Fordsburg
East London	Germiston

ORANGE FREE STATE

Kimberley	
Graaff Reinet	

RHODESIA

Aliwal North	Bloemfontein
Oudtshoorn	

Mossel Bay	Bulawayo
Stellenbosch	Salisbury

NATAL

Durban	Gatooma
--------	---------

DEALERS IN

Surgical Instruments, Dental, Optical, and Photographic Goods, Perfumery, and Assay and Mining Requisites,

Contractors to the Governments of
**CAPE PROVINCE, NATAL, RHODESIA, TRANSVAAL,
and ORANGE FREE STATE.**

London Office, Warehouse, and Factory—

12-14 LAFONE STREET, TOWER BRIDGE, S.E.

Unrivalled position for the introduction and handling of Specialities

BLOCK LIQUORICE JUICE

The Brand that is known all over the World.

The Brand that is recognised as THE STANDARD
for PURE LIQUORICE.

VB

Has a reputation for FINEST QUALITY extending
over 60 years.

High in Glycyrrhizin, absolutely Pure Extract of the
Root, and entirely free from deleterious substances.

Made under supervision of British Staff.

A popular form of a popular Cough Cure

The sales of Bitrate of Tar during the past few seasons have been so great that we are now able to offer you a popular size to retail at 1/3. Advertising commences this month and will be continuous, and we would suggest that you place your order immediately, so that you may reap the full benefits resulting from this campaign. The wholesale price is 12/- a dozen, carriage paid, packed in free cases, and you can secure additional profits by ordering our Special Trade Parcel consisting of 2 dozen 1/3 size Bitrate of Tar and 1 dozen of the 3/- size. The wholesale price of the 3/- size is 30/- a dozen. The price of this Special Parcel is £2 11s. 3d. *net cash with order*. As with all our products, we guarantee the sale and thus protect the chemist.

FOR IRELAND prices will be 1/-, wholesale 9/- a dozen; and 2/6, wholesale 24/- a dozen. The price of the Special Parcel made up for Ireland will be £2, *net cash with order*.

**BITRATE
OF TAR**
at—1/3

International Chemical Co. Ltd.
Wybert St., Munster Sq., London, N.W. 1.

"YADIL" ANTISEPTIC PREPARATIONS.

Revised Prices to take effect from October 1, 1919.

All previous prices cancelled. New Prices on the P.A.T.A.

LIQUID—

Sizes	2 oz.	6 oz.	20 oz.	40 oz.	80 oz.	160 oz.
Retail ...	2/-	3/6	9/6	17/-	30/-	55/-
Chemists' prices, per doz.	17/6	31/-	84/-	152/-	288/-	528/-

JELLY—

Sizes	8 oz.	16 oz.
Retail ...	5/-	8/3
Chemists' prices, per doz.	44/6	73/6

ELIXIR—

Sizes	6 oz.	20 oz.	40 oz.	80 oz.	160 oz.
Retail ...	5/-	13/6	25/-	45/-	70/-
Chemists' prices, per doz.	45/-	121/-	223/-	399/-	675/-

OINTMENT—

Sizes	1 oz.	8 oz.	16 oz.
Retail ...	1/3	8/3	16/-
Chemists' prices, per doz.	11/-	73/6	156/-

PASTILLES—per Tin, Retail 3/6. Chemists' Prices, per doz. 31/6.

The Liquid, Ointment and Jelly are also put up under Green Labels for Veterinary purposes. Sizes and Prices same as above.

All orders sent by Chemists to Wholesale Houses up to and inclusive of September 25 will be filled by the latter at the old prices. All orders must be sent to Wholesale Firms. No free samples given.

Clement & Johnson, ¹⁹ Sicilian Avenue, London, W.C.1.

The word "Yadil" is registered in all important countries as a Trade Mark for our Trimethenal allylic carbide.

IT ONLY COSTS NINEPENCE PER LB.

TO MAKE A FIRST-CLASS VANISHING COLD CREAM WITH

THE IDEAL
BASE FOR

WENO

(REGISTERED)

VANISHING
TOILET CREAMS

It can easily be made in about fifteen minutes.

1 lb. **3/6** - 4 lb. **13/8** - 7 lb. **23/4** net.

POSTAGE EXTRA.

SOLE AGENTS—



MEGGESON & CO., LTD.



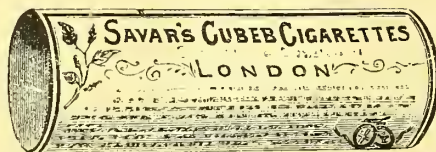
NEW CHURCH ST., BERMONDSEY, LONDON, S.E.



For ASTHMA, HAY FEVER, and
all CATARRHAL AFFECTIONS

RECOMMEND THE

Savar's Cubeb Cigarettes



So effective that you will receive testimonials from all.

P.A.T.A. Min. Retail

Wholesale

1/- size - - 9/- doz. net

2/6 „ - 21/6 „

5 % discount off £5 Assorted Speciality orders.

Evans Sons Lescher & Webb Limited
LIVERPOOL NEW YORK LONDON



BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

**IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.**

Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

**PIPERAZINE CITRATE
IS MADE ONLY BY
ALFRED BISHOP, LTD.**

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the

Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

Prices and Particulars on application to—

ALFRED BISHOP, LTD.

**MANUFACTURING
CHEMISTS,**

48 SPELMAN STREET, LONDON, E. 1.

The SPECIALIST in—

Tooth Powders,
Toilet Powders,

Yena Powders,
Emulsions,

Chemical Foods,
Malt Extract,

OINTMENTS Etc. Etc.

ROBERT BLACKIE

Wholesale & Export Druggist,

Manufacturing Chemist,

Telephone:
Hop 2415.

Telegraphic Address:
Ushenspuna London."

SHEN WORKS,

**Tower Bridge Road,
LONDON, S.E. 1.**

"PREPARATIONS, of which the Muller Nutrient is a very good example, may legitimately be described as 'Nature Remedies.' These will no doubt have an important place in Therapeutics and hold out much hope and promise in the future of medical practice."

—THE MEDICAL TIMES, August 18, 1917.

MULLER NUTRIENT

SELLS AT FACE VALUE 3/- P.A.T.A.

Direct Cash Orders 28/6 doz. with 2 Showcards.

The Muller Laboratories, Ltd., Scientific Food Specialists, 144 Albany St., London, N.W.

MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS Poisonous and Non-Poisonous of all kinds.

DISINFECTANT SOAPS of all kinds.

Sole Proprietors and Manufacturers of
PHENOID (formerly called PHENYLE).

DISINFECTANTS

of all kinds, including
LYSOL SUBSTITUTE
and High Co-Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

IT CLEANS WHEN OTHERS FAIL.

"CASSO"

Cleans immediately, with NO exertion,
Baths, Marble, Paint Work of every description,
Brass, Silver, Tiles, Toilet Ware, Linoleums,
Floors, Sinks, Kitchen Table Tops, &c. &c.

Removes Grease or Dirt from the Hands, and
does not injure the Hands or Clothes.

"CASSO" has no faults, it does not deteriorate
through keeping in stock, does not injure or
scratch the finest enamel work.

"CASSO" is packed in 1-lb. Tins retailing at 1/-,
and 2-lb. Tins retailing at 1/10. Money returned
to any customer who is not satisfied.

"CASSO" shows a GOOD Profit to the Retailer.

Sole Manufacturers:

The CASSON CHEMICAL

CO., LTD.,

11 Craven Hill, London, W.2.

Phones: PADD. 321, 322 & 3518.



HEALO

CURES ALL SKIN TROUBLES

SKIN OINTMENT

On P.A.T.A. 1/3 and 3/- each.
Wholesale Price 10/6 „ 27/- doz.

BONUS & FREE ADVERT.

1/2 doz. with 4 doz.
1 „ „ 6 „

In your local
Newspaper

ATTRACTIVE
DISPLAY CASES,
SHOWCARDS.

FREE SAMPLES.
PROTECTED PROFIT
OF OVER 66 %

MAURICE SMITH & CO., Ltd.

Manufacturing Chemists, KIDDERMINSTER

Telephone: 184.

Export and Colonial Inquiries Solicited.

P.A.T.A. Revised Prices in effect SEPTEMBER 1, 1919.

Antiphlogistine

TRADE MARK

Size.	M.R.P.	M.W.P.	Size.	M.R.P.	M.W.P.
7 oz.	2/6	22/6	34½ oz.	8/6	76/6
17½ "	5/-	45/-	5 lbs.	17/6	157/6

Prices for IRELAND, CHANNEL ISLANDS, and ISLE OF MAN.

Size.	M.R.P.	M.W.P.	Size.	M.R.P.	M.W.P.
7 oz.	2/-	16/6	34½ oz.	6/6	52/6
17½ "	4/-	33/-	5 lbs.	13/6	109/6

A Discount of 5% allowed off M.W.P.
on orders of £2, cash with order.

CARRIAGE PAID ON ALL ORDERS.

THE DENVER CHEMICAL MFG. CO.,
41 ST. ANN'S ROAD, LONDON, E. 3.

CHEMICALS DYES ESSENTIAL OILS

For the Toilet and
Perfumery Trades

EUDERMINE CO., LTD.
79 COLEMAN STREET, LONDON, E.C. 2.

MACHON'S COMFORTINE

has for Forty Years
been the Best & Safest
Infants' Preservative.

COMFORTINE contains no Opiates
or Dangerous Drugs whatever.

During teething it is
a real Baby's friend.

PREPARED BY

Machon's Comfortine Co.
Coalville, LEICESTER.

PRICE 1 - PER BOTTLE.

A HEALING CREAM Mentholatum



Ample Stocks always on hand.

P.A.T.A. PRICES.

1/3 size ... 11/6 per dozen.

2/6 " ... 23/-

Less 5% on 6 doz. orders.

SPECIAL TERMS for WINDOW
AND COUNTER DISPLAYS.

Over 10 million pots sold last year.

The MENTHOLATUM CO.
329 High Holborn - LONDON, W.C. 1.

Write or Cable us for Prices of

OLIVE OILS

FINEST EDIBLE (FRENCH or SPANISH),
PHARMACEUTICAL, GREEN and INDUSTRIAL.

ESSENTIAL OILS

BERGAMOT, ORANGE, LEMON, ANISEED, CASSIA,
CITRONELLA, ROSEMARY, LAVENDER, PENNYROYAL,
PEPPERMINT, and

EUCALYPTUS B.P., 70/80%, &c.

Paraffinum Liquidum and Petroleum Jelly.

TARTARIC AND CITRIC ACID

CREAM OF TARTAR

MENTHOL CRYSTALS

HONEY

CAMPHOR

CASTILE SOAP

JAPAN AND BEESWAX

SICILIAN LIQUORICE JUICE (Block or Sticks).

Lowest Prices. Highest Quality. Strictly Wholesale.
Samples, Prices and Full Particulars on Application.

F. Chiesman & Company

Telephones :

AVENUE

{ 63
64
6994

**59 ST. MARY AXE,
LONDON, E.C.**

And at Liverpool, Bristol and Glasgow.

Telegraphic Addresses :
"PALUSTRIS, LED,
LONDON."

Code :

A B C, 5th EDITION.

TWO SIZES ONLY.

**DR. J. COLLIS BROWNE'S
CHLORODYNE****Prices and Terms :****TRADE :**

Minimum Retail Price	...	...	1/8	3/-
Price (<i>per dozen</i>)	...	...	12/3	30/6

Discount 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable.
Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

Dr. J. Collis Browne's**Chlorodyne**

is on P.A.T.A. Protected List, & must not
be sold below the prices named above.

J. T. DAVENPORT, Ltd., Proprietors,
117 Union Street, S.E. 1.

ÉTABLISSEMENTS CHATELAIN,

2 & 2 bis RUE DE VALENCIENNES, PARIS.

Sole Manufacturers of

JUBOL

**RE-EDUCATION OF THE
INTESTINE.**

Constipation, Enteritis, Hæmorrhoids,
Indigestion, Skin Blemishes, &c.

Price 5/- per box.

GLOBÉOL

POWERFUL BLOOD TONIC.

Anæmia, Nervous Exhaustion, General
Debility, Tuberculosis Convalescence,
etc.

Price 5/- per bottle.

PAGÉOL

**POWERFUL URINARY
ANTISEPTIC.**

Cystitis, Prostatitis, Catarrh of the
Bladder, Renal Tuberculosis, etc. etc.

Price 5/- and 11/- per box.

JUBOLITOIRES

SCIENTIFIC SUPPOSITORIES

For Hæmorrhoids, Rectitis, Anal Fistula, etc.
Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

URODONAL

**POWERFUL URIC ACID
SOLVENT.**

Rheumatism, Gout, Arterio-sclerosis,
Stones, Gravel, Sciatica, Neuralgia and
all Uric Acid disorders.

Price 5/- and 12/- per bottle.

VAMIANINE

New Scientific Preparation for Chronic
Skin Affections, Psoriasis, Eczema,
Acne, etc.

Price 11/- per bottle.

SINUBÉRASE

**SCIENTIFIC PREPARATION OF
LACTIC FERMENTS.**

Indicated in Intestinal Disorders,
Dysentery, Diarrhoea, Dyspepsia, Enteritis,
Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

FANDORINE

Metrorrhagia, Dysmenorrhœa and Lactation,
Pains, etc. etc.

Price 5/- and 11/- per bottle.

FILUDINE

SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish
Liver, Tuberculosis, etc.

Price 11/- per bottle.

GYRALDOSE.

Antiseptic for local Gynæcological use.

Price 4/- per box (powder)
" 5/- " (tablets)

Sheppells

BRITISH AND COLONIAL AGENTS—
Pharmacists & Foreign Chemists, 164 Piccadilly, LONDON, W. 1.

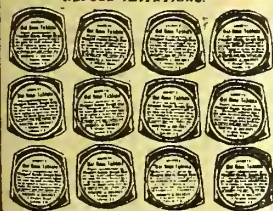
Telegrams: "URODONAL LONDON." Telephone: Regent 192.

AUSTRALIAN AGENT: Mr. BASIL KING, Malcolm Buildings, Sydney, N.S.W.

INDIA (SUB-AGENTS): G. ATHERTON & CO., 8 Clive Street, Calcutta.

Stocked by all Wholesalers.

Now being largely advertised.



APPROACHING ITS 50th YEAR.

	dozen.	per gr. ss.
2d. size 1 4	15/-	
3d. " 2/-	23/-	
6d. " 4/-	46/6	

Chilblain Tablets same price

Order from your wholesale
house. If from us cash with
order net.

CARRIAGE PAID.

ROBERTS & SHEPPEY,
2 Skipton Street, S.E. 1.

JABEZ WOLFFE'S CHANNEL EMBROCATION

The finest preparation for Rheumatism,
Sciatica, Neuritis, Muscular Stiffness,
Sprains, Cramp, Stings and Bites.
Should be stocked by every Chemist.

Prices: 1/3, 3/-, 5/- per bottle.

The Laboratory, 12 Hampton St.,
BRIGHTON, - SUSSEX, - ENGLAND.

Agents required for North of England areas.

PLANO

The best thing out for Rough Skin and

CHAPPED HANDS.

Sold everywhere at the popular price, 3d.

TRADE PRICES:

6 doz. 12/- NET } Carr. Paid
1 gro. 23/6

13 to the dozen for cash with order.

Discount—Orders of £1, 2½ %; £5, 5 %;
£10, 7½ %

Advertising matter supplied with each order.

SPECIAL OFFER.

13 doz. tablets, by parcel post, with advertising
matter 23/6, less 2½ % cash with order.

Recent Testimonial:

"I am delighted with the result of Plano. Please send
some more for my friends, who think it marvellous."

MILNER'S CHEMICAL CO.
LIVERPOOL.



ESTABLISHED 1860.

A Safe & Indispensable Family Remedy

EUSALINE

The foremost place which EUSALINE now occupies in public appreciation amongst Natural Fruit Salines has been won by its outstanding merits.

QUALITIES :

Cooling
Refreshing
Cleansing
Sparkling
Palatable

As a Morning Tonic EUSALINE is unrivalled, it quickly corrects all indiscretions in eating and drinking—sweetens the stomach, cleanses the system and purifies the blood.

AN ALL-THE-YEAR SELLER. KEEPS IN ALL CLIMATES.

A FAVOURITE WITH CHILDREN.—Its inviting sparkle, pleasing taste and flavour are particularly acceptable to children, who will take EUSALINE when they refuse all other aperients.



WHOLESALE TERMS.

EUSALINE is Retailed at 2/- per bottle. Wholesale price, 18/- per dozen. Discount 15%, and Carriage Paid on £5 orders. Can also be had in boxes containing 13 packets, to retail at 11d. per packet and 1/6 per box. Wholesale price, 13/- per gross. Discount 15%, plus bonus, according to quantity ordered. Carriage paid on £5 orders.

GEORGE WALKER & SON, Ltd.

Reid Street, Bridgeton - GLASGOW.

DISTINGUISHABLE FROM ALL OTHER PREPARATIONS BY ITS GRANULAR FORM, WHICH ENSURES A DEGREE OF MEDICINAL ACTIVITY AND FRESHNESS HITHERTO UNOBTAINABLE.

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants,
—Manufacturing Chemists—

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins	10d.		7/-
* " " " " " "	1/7		13/6
* " " " " " bottles in }	2/-		18/-
" " " " " cartons }			

*** Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.**

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box at 9d. each tablet.

	Box.	Doz.
	2/3	21/-

Cellophane Important Announcement

CELLOPHANE. The Ideal Wrapping Material for Drugs, Soap, Perfumes, Provisions, &c. &c.

Various articles done up in **CELLOPHANE**, showing its POSSIBLE APPLICATIONS to the above trades, can be seen daily at our London Address.

Everybody interested is **CORDIALLY INVITED.**

The CELLOPHANE COMPANY

(LECLERCQ & CHARÉLAT),

15 Cullum Street, London, E.C. 3

GOOD! IT'S MASON'S

The Drink for the Masses



Millions of glasses used daily
by workers all over the Empire

Please allow us to Sample and Quote—

Citrate Magnesia
Health Salt
Salines
Liver Salt
Blood Salt
Sulph. & Sarsap. Salt
Lemonade
Crystals, &c.

NEWBALL & MASON
NOTTINGHAM

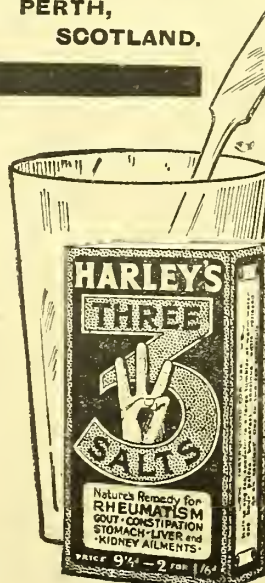


GRASP THIS OPPORTUNITY

Dates.....
From MONDAY, Sept. 15th
to
TUESDAY, Sept. 30th, 1919
Both Days inclusive.

OFFER.....
For a 14 days' window display,
with every Carriage Paid Order
of 3 dozen Harley's Three Salts
received during above dates,
SIX OF THE PACKETS WILL BE SENT FREE.
3 dozen—19/-, sent for the price
of 2½ dozen—15/10.

Attractively Packed. Steadily Advertised.
A ready seller. Assures satisfied customers.
POST YOUR ORDER TO-DAY.
Get it direct from the Maker—
HARLEY, Manufacturing Chemist,
PERTH,
SCOTLAND.



ALL CHEMISTS SHOULD STOCK **ABDINE**

THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Over 40 Years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. Sold in Packets, 1d. each; Boxes of 13 packets, 16.
Wholesale prices on application. Sample Box 1/6.
D. McGLASHAN, M.P.S., Abdine Works, Westfield Road, EDINBURGH

CHELTINE FOODS CO., CHELTENHAM.

DIABETES

FLOUR, BREAD, BISCUITS, FOOD, RUSKS, COCOA, Etc.
Also Foods for Anæmic, Dyspeptic, Invalid and Aged People
and Infants. Highly recommended by Medical Profession.
INFANTS' FOODS packed under Chemists' "OWN NAMES."
Terms and all particulars on request.

WE have enabled Manufacturing Chemists to
effect great economies in cost of drying, in
space occupied, in time required for drying, and
greatly increased their output by installing
improved Drying Machinery.

WE can do the same for you. Send us details of
your drying problem and we will advise you.
Special attention paid to scientific drying of drug
mixtures and raw chemicals.

Write—

THE BRITISH FRUIT EVAPORATOR CO.,
7 DENMAN STREET, S.E. 1.



WINOX Wine Food

is a high-class Pharmaceutical preparation containing all the food elements of Wine, Meat, Malt and Unfermented Grape Juice

(Wine Licence Require!)

Unsurpassable for Influenza; invaluable for Anæmia, Lassitude, Neuralgia, Nerve and kindred troubles.

Winox will stand any climate, and contains no harmful drugs.

Price 5/6 per bottle retail. Chemists who do not already stock Winox should apply for price to WINOX LTD., Richmond, Surrey.

IT MAKES YOU FIT
AND KEEPS YOU FIT



The Value of "Vin-Sanguis"

is recognised by the private practitioner, the nurse and the Army doctor, as well as by the general public.

It is a blend of the choicest old mellow Wine with pure Meat Juice and Malt Extract.

Widely advertised and a ready seller: bearing a good profit to wholesaler and retailer.

Retailed at 3/- and 5/6 per bottle.

Write for particulars.

DR. HALE'S
VIN-SANGUIS
WINE FOR THE BLOOD

TRANS-CONTINENTAL AGENCIES LTD.,

Proprietors of Dr. Hale's "Vin-Sanguis" Co.,

444 Strand, London, W.C. 2.

PURE ORANGE WINE A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

(Wholesale only)

London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

WINGARNIS

Sells readily ALL the time.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENCES

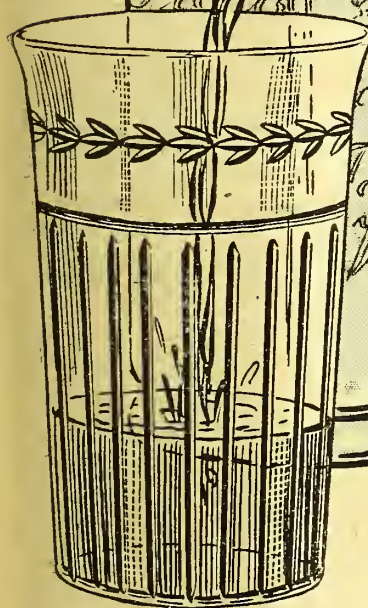
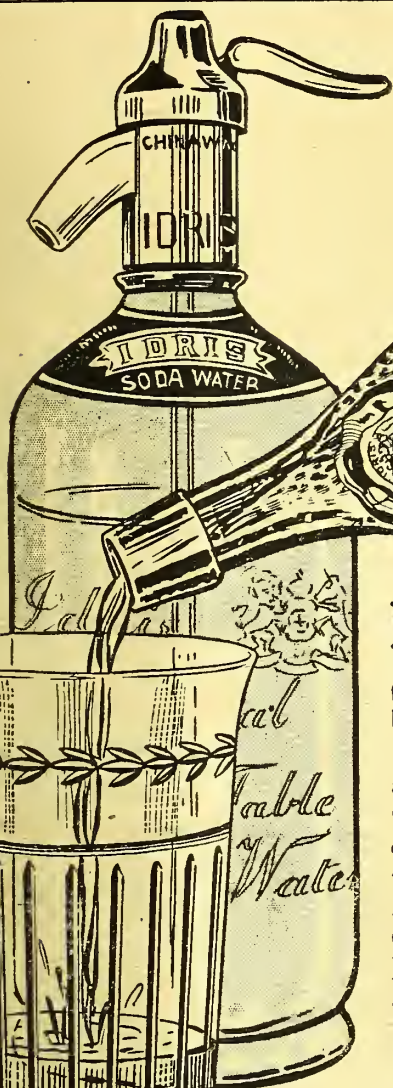
It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY CO. LD.

The Largest Makers in the Kingdom.

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.



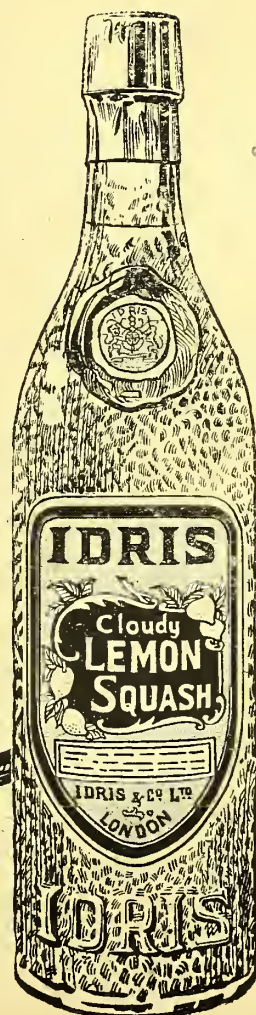
HELP YOURSELF

to your share of the business by supplying IDRIS Lemon Squash and IDRIS Lime Juice Cordial. Our big publicity campaign is having the desired effect in assisting sales wherever these beverages—fresh, healthful, and of delicious flavour—are stocked. Remember the name IDRIS guarantees the quality.

Terms, etc., on application.

Communications to the

**Sales Manager, Dept. K. 2.
IDRIS & CO., Ltd.,
Camden Town, LONDON, N.W.1.**



THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

ATKINSON & BARKER'S ROYAL INFANT'S PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON, Ltd.
13 Wesley St., C-on-M., MANCHESTER.

DOES
NOT
CONTAIN
any
SCHEDULED
POISON.

More Customers

The
Beverage



of
Health

Will call at your store if they know you stock Vi-Cocoa because this food beverage of the people is in great demand as a tonic restorative in cases of mental and physical overstrain.

Display Vi-Cocoa in your window—it will attract many who would otherwise pass you by. Write for trade terms to-day—they are particularly favourable.

Vi-Cocoa

The Watford Mfg. Co. Ltd.
Delectaland — Watford.

CHELTINE MILK & MALTED FOODS

No. 1. from birth to five months.
No. 2. from five months onwards.
No. 3. for Invalids, Dyspeptics, the aged,
and those with enfeebled digestions.

Experience is proving, and medical men are testifying to the value of these perfect Foods.

Terms and full particulars from

THE CHELTINE FOODS CO., CHELTENHAM.

PURE WHITE INLEAVED ABSORBENT

COTTON WOOL in Packets

1 lb., 1/3; 8 oz., 1/4; 4 oz., 1/5½; 2 oz., 1/7; 1 oz., 1/8 per lb.

Quantities ½-1 cwt., special prices, carr. paid. Pure Mag. Carb. Levis, B.P., and Rice Starch Powder. Terms—Cash with Order.

J. L. STANSFIELD, Chemist, Boothfold, Waterfoot, nr. Manchester.

When consulted about
Diabetic Foods
remember the advantages
of the "ENERGEN" Brand.

Prescribed by leading Specialists.
Carry a good profit to the Chemist.
Inquiries invited.

Therapeutic Foods Co.
19c Roundwood Road, Willesden, N.W.10.

FINEST BLACKS AND COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

~~~~~

Guaranteed  
Harmless.

~~~~~

50

times the concentration
of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE
and
IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and
Preservative for Wood

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS

In 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - - - MANCHESTER

LIQUID PARAFFIN, B.P. 1914

WE specialise in medicinal petro-
leum and can satisfy your
demands for high quality in this
line. Worth especial attention are

PARAFFIN. MOLLE
(*"Semprolia" Brand*)

EMULS. PETROLEI c.
HYPOPHOSPH.

(*In Bulk or Packed.*)



WM. BROWNING & CO., LTD.

Manufacturing and Export Chemists.

Albert Works, Park St., London, N.W.1

All Petroleum Products

TECHNICAL AND MEDICINAL
WHITE OILS

PETROLEUM JELLIES,
WHITE, YELLOW, DARK

PARAFFIN WAXES

NEUTRAL OILS,
DEBLOOMED AND UNDEBLOOMED

PALE & RED LUBRICATING OILS

CYLINDER OILS,
STEAM-REFINED, FILTERED

WHOLESALE ONLY

W. J. SMITH

Sole European Representative

The JAMES B. BERRY'S SONS CO. Inc.

110 CANNON STREET, LONDON, E.C. 4

SILVER CREST LANOLINE

(ANHYDROUS)

In Barrels, Kegs or Drums.

Actual Manufacturers and Refiners

**The HILLCREST OIL CO.
(BRADFORD) Ltd.**

CLAYTON . . . MANCHESTER

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow
and golden, for pharmaceutical
purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller
packages according to requirements.

Inquiries are solicited for this article
of **BRITISH MANUFACTURE**, and
buyers may rely that for quality and
price it will meet any competition

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINE," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: "Cestrian Liverpool."

ADEPS LANÆ B.P.

"ULTRAVI" Brand.

The Latest & Best.

— Inquiries Invited. —

THE

G.V.O. Chemical Works,

LIMITED,

Petersham Road,

RICHMOND (SURREY).

Genuine Russian **LIQUID PARAFFIN**

All gravities, correct viscosities

"Jasmine Brand" **ADEPS LANÆ**

Lanoline

Superfine
Anhydr.
and Hydrous

"Jasmine Brand" **PETROLEUM JELLIES**

White and Yellow

"Jasmine Brand" **WHITE OILS**

Chem. Pure, Water-white,
Tasteless, Odourless

FOR MANUFACTURING PURPOSES

B.P.

1914

Finest Qualities

**Competitive
Prices**

ALSO TRANSFORMER & INSULATING OILS.

The PURE RUSSIAN LIQUID PARAFFIN CO., Ltd.

3 St. Helen's Place, **LONDON, E.C.3.**

Actual Refiners and Manufacturers at their Works near London.

1/2



MAKE YOUR OLD HAT A NEW ONE.

In bottles, 1/2 each, in separate neat cartons. These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

SUITABLE BRUSH SUPPLIED.

**NO GLOSS.
NO POLISH.**

ON THE P.A.T.A.

*Write for Terms, Patterns, also
Leaflet of Testimonials.*

**Luton HAT
DYE**

WHITAKER & CO.,
Colour Works, KENDAL.

London Office and Showrooms; 61 and 62 Craven House, Kingsway, W.C. 2.

*GLOSSY SERIES supplied if desired.
Special Non-inflammable Series for Export.*

Telephone : Gerrard 1774.

ANOTHER HOME ARTICLE OF GREAT UTILITY



FOR HOME DYEING.

All these colours will dye either Wool, Silk or Cotton, or mixture of these. No separate dye required for each material. Easy and clean to use. No acids or preparation required. Make home dyeing a matter of interest and pleasure.

A standard range of 24 Colours; other shades supplied. In PACKETS, 2d., 3d., and 6d. each, and in Bulk.

Pattern Book. Write for Terms and Patterns.

WHITAKER'S Household Coloured Varnishes

(VARNISH STAINS)

For Floors, Furniture, and Woodwork generally.
Patterns supplied.

BLACK LACQUER FOR GRATES, &c.

"JUGGLER" BLACK FOR LEATHER.

For Dyeing Tan Boots, Belts, Harness, Bags, Portmanteaux, and all leather goods a rich Black. Articles dyed with this may be worn and polished ten minutes after application (non-inflammable).

WHITAKER'S GOLD PAINT

For all Ornamental and Artistic purposes.

WHITAKER & CO.

Colour Works, KENDAL, England.
London Office and Showrooms : 61 and 62
Craven House, Kingsway, W.C.2. Telep.: Gerrard 1774

Telegraphic Address : "Dullette Kendal."
Telephone : No. 214 Kendal.

ESTABLISHED 1878.

HOT WATER BOTTLES

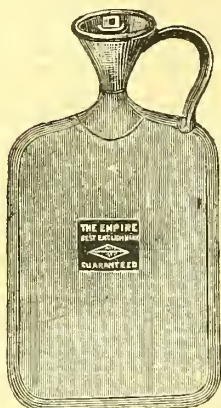


FIG. 957.—Side Handle.

The "EMPIRE" Brand

One Quality only—THE BEST. Guaranteed for 2 years.

	Sizes	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Heavy weight	each	4 0	4 4	4 8	5 0	5 6	6 0	6 3	7 0
Covers, scarlet or grey plush	"	1 5	1 8	1 10	2 0	2 2	2 8	2 10	3 3

EACH BOTTLE IN A STRONG PAPER BAG WITH DIRECTIONS FOR USE.

5% discount allowed for prompt cash off above prices.



NOW IS THE TIME to place your stock order for these Bottles, as owing to the advance in the cost of materials and labour there will be an increase on above prices in the New Year. Make sure of your stock at fixed prices by sending us your order without delay.

We are the right House for **BRITISH-MADE GOODS**—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE.

OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

"INTRINSIC" Brand (highest Grade) SURGICAL KNIVES and SCISSORS



Chiropodist's Knife. In various patterns.

Inquiries invited by the **ACTUAL MAKERS**.
Amputating, Dissecting, and Veterinary Knives,
Symes, Scalpels, Bistouries, Lancets, etc.

J. MILNER & CO.

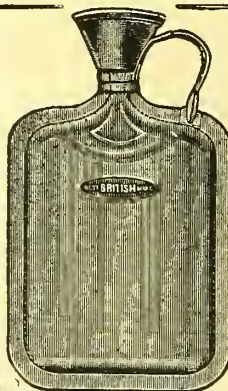
Orient Works, 36 & 38 Matilda St., SHEFFIELD (Estd. 1842)

ELASTIC GUM SURGICAL INSTRUMENTS.



Catheters and Bougies, in Black or Brown Gum, and Finest Silk Web. Specula, Rectal and Oesophageal Instruments.
Horse Catheters and Cattle Probangs. Wholesale and Export only. Price List from the Manufacturers.

MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C.1.



BEST BRITISH MAKE.

6×10 7×10 8×10 8×12 10×12
White 3/11 4/2 4/6 5/- 6/-
Red 4/1 4/6 4/9 5/4 6/4
(Special Discount for Quantities.)

All kinds of Surgical
RUBBER GOODS.

JAMES TOMPKINS Ltd.

(THE RUBBER HOUSE).

386 City Road, London, E.C.1.

AN ALL-BRITISH FIRM.

Estd. 42 Years. Phone: City 7640.

SURGICAL RUBBER GOODS

SYRINCES.

ENEMAS.

BREAST RELIEVERS.

WHIRLING SPRAYS.

ICE BAGS.

DOUCHE TUBING.

VULCANITE.

DOUCHE FITTINGS.

SPRAY MOUNTS.

ETC.

HIGGIN LTD.

265 Deansgate, MANCHESTER.

Tel.: 1283 Central.

Don't be "Too Late" for the Winter Trade Order your Supply of "Ronoleke" Bottles now



The demand for the "Ronoleke" Hot Water Bottle, now that the makers are free to concentrate on its manufacture, is enormous. They can definitely promise prompt supplies to Chemists who apply through their Wholesale House NOW.

Later on—it will be a different matter—as no other Bottle sells so freely. The fact that the "Ronoleke" is guaranteed unbreakable gives it the preference and makes it first choice with discerning Chemists.

Prices of the "Ronoleke" Hot Water Bottles

Protected on the P.A.T.A. List.

Size	Minimum Wholesale Prices to Retailers				Minimum Retail Prices to Public			
6" x 8 1/2"	4/6	...	...	...	6/9
6" x 10"	4/10	...	...	...	7/3
7" x 10"	5/-	...	...	...	7/6
6" x 12"	5/2	...	...	...	7/9
8" x 10"	5/6	...	...	...	8/3
7" x 12"	5/8	...	...	...	8/6
6" x 14"	5/8	...	...	...	8/6
8" x 12"	6/2	...	...	...	9/3
9" x 12"	6/7	...	...	...	9/11
8" x 14"	6/8	...	...	...	10/-
10" x 12"	7/-	...	...	...	10/6
10" x 14"	7/11	...	...	...	11/11
10" x 16"	8/6	...	...	...	12/9
12" x 16"	9/2	...	...	...	13/9

Apply for your Supply through your Wholesale House.



ESTABLISHED 1847.

Allcock's PLASTERS

A REMEDY OF 70 YEARS' STANDING.

**Allcock's Plasters
Allcock's Corn and
Bunion Plasters
Brandreth's Pills**

*The
Three
Reliables.*



*Prices and Terms
on
application to*

**ALLCOCK -
MANUFACTURING
COMPANY -**

22, Hamilton Sq.,
Birkenhead,
England.

"Sold all round the World."

India Rubber Corks & Tubing

For the Chemical Trade.

SUPPLIED IN

**ALL SIZES AND QUALITIES
GREY or RED.**

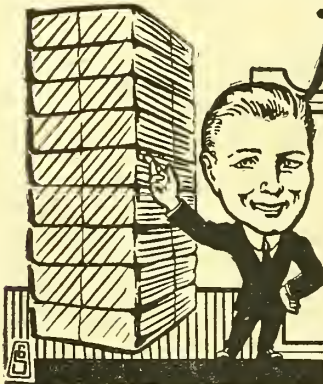
*Your inquiries solicited, upon receipt of
which samples and prices will be submitted.*

**GARDEN CITY RUBBER CO.
LETCHWORTH, Herts.**

Telephone:
Letchworth 54.

Telegrams:
"Rubber Letchworth."

for Immediate Sale-To Clear.




Brown Paper

A Limited Quantity.

Samples, Prices. **CHAS. BRODIE & CO. Ltd.**
46-47 GREAT SUTTON STREET, E.C.1.

ASTRAL DISPLAY STANDS ARE MUTE MAGNETIC MONEY MAKERS



To the Trade

WE MAKE

Screw Caps

IN ALL SIZES & METALS

Send inquiries to

A. F. CORBETT & CO.
151 High St., Harborne, Eng.

Send for Booklet, which will tell you all about it.
A. F. CORBETT & CO., Chemists' Complete Outfitters, 151 High St., Harborne, Eng.

SATISFY YOUR CUSTOMERS The "Fastnet" BANDAGES

In Sealed Cylinders.

Used by Discriminating Medical Men.



The following are a few of the many advantages of the "Fastnet" Bandages over any other Water-dressing Bandages on the market:—

- (1) The cloth from which they are made is of even manufacture, very absorbent and heavy texture.
- (2) They are tightly rolled by a patent process, the benefit of this will be at once appreciated by the surgeon when applying.
- (3) They are cleanly cut and evenly packed.
- (4) They are each packed in a sealed cylinder, ensuring cleanliness in use and in storage, and require no further wrapping before sale.

Samples and prices can be had on application to Sole Agents:—

JOHN TIMPSON & CO., Ltd., 104/6 Golden Lane, London, E.C.1

THE LONDON "FIT WELL" BABY COMFORTER



WHOLESALE & EXPORT ONLY. SHIPPERS SUPPLIED.

Manufactured by **EPHRAIM WOOLF,**
30 PRIORY AVENUE, WALTHAMSTOW.

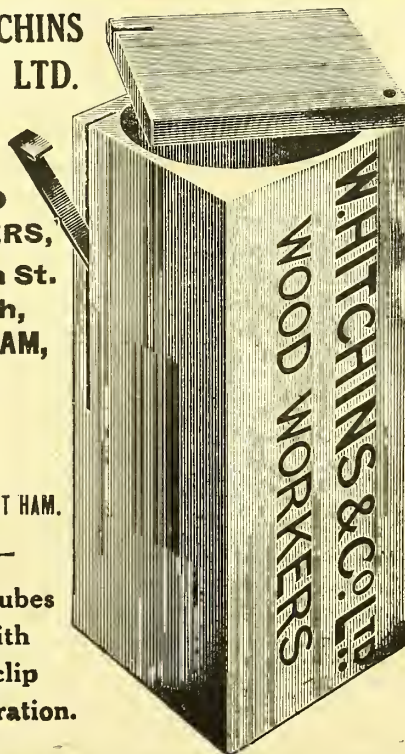
Works:—633 FOREST ROAD, WALTHAMSTOW, LONDON.
Please Write for Samples, Post Free.
RUBBER TEATS, BONE SHIELDS, Etc., SUPPLIED SEPARATELY.

W. HITCHINS & CO., LTD.

**WOOD
WORKERS,
78 High St.
South,
EAST HAM,
E.6.**

Telephone :
475 EAST HAM.

Postal Tubes
fitted with
patent clip
as illustration.



FOOT TROUBLES

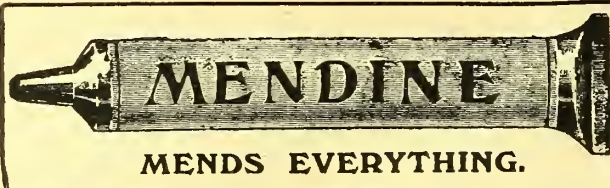
such as Corns, Bunions, Callouses on the Sole, Flat Foot, Cramped Toes, &c., are increasingly prevalent owing to unaccustomed War Work.

D'Scholl's
Foot Comforts

are the result of years of experience devoted to the treatment of Foot Ailments by Dr. Scholl, and are to-day recognised as the most perfect corrective devices on the Market. They are in constant demand, and all Chemists will find it profitable to stock them.

Send for Wholesale Price List.

THE SCHOLL MFG. CO., Giltspur St., E.C.

**A PERFECT Liquid Glue CEMENT**

Made from the finest materials obtainable. **Guaranteed** to retain its efficiency for **Six Years**. In 2d., 3d., 5d., & 7d. Tubes. Boxed in dozens. Also in Bulk for Carpentry, Joinery and Aeronautical Works, etc. 1-lb., 1-lb., 14-lb., and 28-lb. Tins.

Indent through Merchant Shippers. Export Cases at Cost.
f.o.b. London.

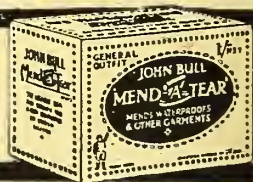
MENDINE CO. (Sole Proprietor, FRANCIS W. COOMBE)
8 ARTHUR ST., LONDON BRIDGE, E.C. 4.

**Mend-a-Tear.**

mends invisibly and without stitches any tear in suits, overcoats, macintoshes—in fact, in almost any fabric. It is packed in outer decorative cartons

LEICESTER RUBBER CO., LTD., 18 Granby Mills, LEICESTER.

containing 3 doz. 1/- outfits, and as a quantity of attractive advertising matter issent with every carton, chemists should order in 3 doz. and in multiples thereof.

**BESORBON**

(Dr. Hill's Formula).

MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH AND COLD IN THE HEAD.

RICHARD DICKESON & COMPANY (Incorporated with REYNOLDS SONS & CO., LIMITED).
57/59 CHARTERHOUSE STREET, LONDON, E.C.1

FREDK. FINK & CO.,

10 & 11 MINCING LANE, LONDON, E.C.

SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

PRECIPITATED CHALK.

Lightest and Whitest, also Purest Dense

APPLY TO

AUG. LEVERMORE & CO. Ltd., 8-10 Ct. St. Melons, LONDON, E.C.

Telegrams: "LEVERMORE LONDON." Telephone 4613 Central

HOT WATER BOTTLES—HEAVY MAKE.

8×6 4/-; 10×6 4/3; 10×8 5/-;
12×6 4/9; 12×8 5/8; 12×10 6/6;
14×8 6/2; 14×10 7/3 each.

Galen Manufacturing Co. Ltd., Wilson Street, New Cross, S.E. 14

John E. Raworth & Moss,

Chartered Patent Agents.

The Old Mansion House,
73 Cheapside, E.C. 2.

AND Queen Anne's Chambers,
Westminster, S.W. 1.

TINORI PAINLESS CORN CURE

P.A.T.A. 1/3. From all Wholesalers.

Write for Special Offer terms to

E. MAC SWEENEY, Manufg. Chemist, CORK.

PUFFS of ALL KINDS in DOWN and WOOL. SOLID FACE POWDERS

COMPLETE WITH PUFFS.
Inquiries invited by makers.

F. SCHUTZE & CO., Ltd.,
BLACK BULL WORKS,
Caledonian Market, LONDON, N.7.

**SHADEINE**

FOR COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses

Trial size 8d., per post 10d. Medium, 1/4 per post 1/7; Large, 3/6, per post 4/-

8d. size 6/- doz.; 1/4 size 12/- doz.; 3/6 size, 33/- doz.

THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

**CACHETS**

WEPS
The Best Quality.

WEST-END PHARMACY SUPPLY
(R. Rios)

33 St. Mary-at-Hill, London, E.C.3

Cachets. All sizes, plain and embossed.

Orders accepted for coloured & printed

BLENOSAN CAPSULES

(Kava-Kava & Santal Compound).

Medicinal Capsules, Fine Chemicals.

CACHETS "FINOT"

(White or Coloured).

With Inscriptions in any desired tint; also Plain or Embossed.

A distinction all their own.—C. & D.

Perfection of Cachets. — and.

These Cachets are especially adapted for Headache, Neuralgia and other powders

COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.

In 17 Sizes, to fit the various types of Cachet Machines

**HAVE YOU TRIED OUT OUR OFFER?**

of 6 dozen and 1 dozen 6d. packets, along with full advertising matter for window? Carriage Paid to your address. Sales are immediate direct.

4/- PER DOZ.

P.A.T.A. 6/-

PER PACKET

Quina Quenna

is shown because it is the subject of a big and clever campaign embracing all best media.

43%

CHRISTY'S Old Swan Lane London, E.C.4

WESTMINSTER COLLEGE OF PHARMACY

Established 1874.

STAFF:

Phone: 1728 BRIXTON.

G. S. V. WILLS and P. H. WOODNOTH (Principals).

W. A. KNIGHT, Ph.C., Pereira Medallist; J. G. EVERETT, Ph.C., Council Medallist;
T. E. DUNSTAN, Demonstrator.

**BENCHES ARE NOW BEING BOOKED FOR
COMPLETE COURSES FOR THE QUALIFYING EXAMINATION BY DAY
CLASSES IN THE SESSION FROM OCTOBER, 1919, TO OCTOBER, 1920.**

For Details of Arrangements, Pass Lists and Prospectus

Apply to THE PRINCIPALS, 190 CLAPHAM ROAD, LONDON, S.W.9.

THE BATH AND WEST OF ENGLAND College of Pharmacy.

Principal—DAVID J. WILLIAMS, Ph.C., F.C.S. (Silver Medallist).

Day Classes.

Special Classes for Ladies.

SUCCESSES: 100% on Fourteen occasions during 11 years. At these Exams. alone 70 entries and 70 passes from this School.
CORRESPONDENCE COURSES in Minor, Major, Apoth. Hall, Preliminary and Scholarships.

£181 already won at Scholarships by Students of this School,
OSTLER SCHOL., 1918, winner, Mr. W. D. Richards, Merthyr.

For Illustrated Prospectus and Report apply—

Secretary, BATH COLLEGE OF PHARMACY, Cleveland Place East, BATH.

RECONSTRUCTION

Build up a Mail Order Business.

Reconstruct your business with the right materials in the way of ad. matter. Let me prepare your booklets, folders, letters and press ads. **DESTROY YOUR STEREOTYPED PRE-WAR ADS. AND START WITH MY "SOMETHING DIFFERENT" ADVERTISING.** Twelve years' successful experience in helping C. & D.'s at your disposal. Write **TO-DAY** for my free booklet, "BUSINESS BY POST."

F. A. DEGEN, F.I.S.A.C.

(C. & D. Mail Order Specialist),

c/o The "C. & D.", 42 Cannon St., London, E.C. 4.



**We Develop Films and post back Next Day
,, & Print ,, ,, in Two Days**

Plates, Flat or Roll Films, developed, printed, enlarged, retouched, etc. We lay our works out to supply Pharmacists with good work at reasonable prices, with quick dispatch. Price List on application. Monthly accounts without fuss.

**ARTHUR J. C. LEWIS, The Chemists' Photographic Printers,
NEW BARNET**

CITY OF LONDON COLLEGE

White St. & Ropemaker St., Moorfields, E.C.

MICHAELMAS TERM commences SEPTEMBER 29.

Classes and Laboratory work in Chemistry. Special preparation for the Examinations of the **Pharmaceutical Society**, Courses on Commercial Products, Metals, Oils, Textiles.

Full particulars gratis, on application to **DAVID SAVAGE,** Secretary.

GOWER & TUDOR,

Photographic Experts to the Profession,

113 Warwick Street, LEAMINGTON SPA,

BEG to announce that they have now opened up a special Department for the Developing, Printing and Enlarging of Amateur Films and Plates. The Department is under the direct supervision of an expert, and only the best work is turned out at extremely moderate prices.

Send postcard for Price List and particulars of our special Showcard offer.

N.B.—There are good profits in this branch of Photography, and those Chemists who have not yet started a Department will be well advised if they get into communication with us without delay.

ARRESTED EVERY TIME

is the **PUBLIC'S EYE** to **YOUR WINDOW**
WHEN MY SHOWCARDS are **ADVERTISING YOUR GOODS.**
THEY silently **FORCE YOUR TRADE.**
TRY THEM. PRICES ARE LOW.
F. MERTEN, 112 Warham Rd., HARRINGAY, LONDON, N.4.

A PROFITABLE PROPOSITION.

"FLUZO" POWDERS

(Trade Mark, Registered).
For Headache, Toothache, Neuralgia, and Rheumatism.
Sold at 1/3 per box of 12 powders, or loose at 2d. each;
two for 3d.

Advertising matter with all orders, and Bonus for Window Shows.
Send for Price List and particulars.

A. S. PRICE & CO., LTD., Blackheath, Birmingham.

THERMOMETERS, HYDROMETERS, AND LAMP-BLOWN GLASSWARE.

A. T. REYNOLDS, Barnsbury Hall, Barnsbury Street,
LONDON, N.1.

Inquiries solicited.

MERCURY bought to any amount for cash.

Wholesale and Export.

THE EFANDEM CO. LTD.

BRITISH
"TEC"
MAKE

Manufacturers
of T.E.C. Goods
INCLUDING

BRITISH
"TEC"
MAKE


**Electric Pocket Lamps, Torches
Hand Lanterns, Dry Batteries
etc., etc.**

CHIEF OFFICES AND WORKS: **FALLINGS PARK, WOLVERHAMPTON**

Telegrams—"Efandem"

Telephone—1123

LONDON—22 NEWMAN ST., OXFORD STREET, W.1
MANCHESTER—18 QUEEN ST., ALBERT SQUARE.



BRITISH MADE

PRICES PER DOZEN COMPLETE
Fitted with 1½ in. Lens, Patent Switch, Metal Filament Bulb, and best Battery.
For full range of Prices see new List.

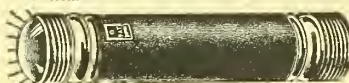
	No.	Doz. Net.
Popular quality, assorted covers, polished fittings	310	18/-
Medium quality, leatherette covers, nickelled fittings ...	325	20/-
Superior quality, best leatherette covers, & heavily nickelled	324	26/-
De Luxe quality, selected leather covers, and heavily nickelled	423	36/-

Ward & Goldstone
SALFORD MANCHESTER

SEND FOR OUR SEASON'S LIST
Illustrating full range of Electrical Pocket Lamps, Torches, Hand Lamps, Medical Coils, Bells, etc., in view of the constantly increasing demand for these goods, Traders would be well advised to order now to ensure immediate delivery. **REMITTANCE WITH ORDER WILL ENSURE PROMPT DISPATCH.**

British Made Electric TORCHES
complete with Batteries and Metal Filament Bulbs.

The "Popular," 6½ × 1½ ins. Weight 1½ ozs. Reliable Torch at a popular price. Thoroughly strong and well constructed. Fitted with patent permanent switch. Price complete, 2/6 each net.



The "Million," 7 × 1½ ins. Weight 12½ ozs. The Ideal Travellers' Torch. With heavily nickelled solid end pieces and permanent fittings, patent permanent switch. Price complete, 3/4 each net.

The "Kit," 7½ × 1½ ins. Weight 12½ ozs. The Ideal Travellers' Torch. With heavily nickelled solid end pieces and permanent fittings, patent permanent switch. Price complete, 6/4 each net. Spare Batteries (No. T/112) suitable for the above size Torches, price 1/4 each net.

The "Ellesmere," 4 × 1½ ins. Weight 13 ozs. All-metal body, ebouised, nickelled mounts. Handsome appearance, strong construction. Fitted with patent permanent switch. Price complete, 4/4 each net.

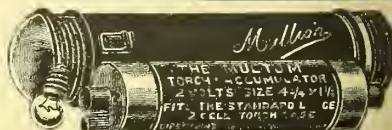
The "Admiral," 9½ by 1½ ins. Weight, 15 ozs. Similar finish and quality to the "Ellesmere," but fitted with 2½ ins. bullseye lens. Price complete, 6/8 each net. Spare Batteries (No. T/116) suitable for the above size torches, price 1/8 each net. The "Torch" refills supplied with above will hold up in stock 6 to 12 months.

Best Quality Flash-Lamp BULBS

3.5 volts.,
4 - doz.
Best Quality

'VOLEX' POCKET LAMP BATTERIES
British made.

8/6
doz. net.



The "Multum" Torch Accumulator.

Suitable for Home and Export. Unspillable, clean, lasting, and reliable—12 hours light at a charge. No heavier than dry battery refill.
2 Volt Type. Size 4½ × 1½ in. Weight 6 ozs. Fits the standard large 2-cell case. Price 4/- each net.
Complete with "Million" torch case and special metal filament bulb. Price 6/4 each net.
4 Volt Type. Size 7 × 1½ in. Weight 9 ozs. Fits the standard large 3-cell case. Price 7/- each net.
Complete with "Ellesmere" torch case and special metal filament bulb. Price 10/- each net.



THE ALL BRITISH
TRADE **"THREE STAR"** MARK
BATTERIES

DEFY FOREIGN COMPETITION

Ask your Factor
for "ThreeStar,"
or write direct to
the Manufacturers.

Made entirely in
England with
British Capital
by British Labour.



Sunlight Manufacturing Co. Ltd.
PAXTON ROAD, TOTTENHAM, N.17.

TELEPHONE: TOTTENHAM 2208.



BOTTLES.

I can supply BRILLIANTINES, LIMES, BAY RUMS,
TOBINS, OVALS, CANNONS, TABLET BOTTLES,
SCREW JARS, OILS, &c. Wholesale quantities only. Send
me your inquiries.

G. VAN DER HOEK, 324/5 Bank Chambers, 329 High Holborn, LONDON, W.C.1.

KUR-MANGE

THE CERTAIN REMEDY
FOR
PARASITIC MANGE
IN
HORSES, CATTLE, DOGS, &c.

BOXES OF 1 doz. 1/6 packets, 12/- per box. On P.A.T.A. list.

McDOUGALL BROS., Ltd., 66/68 PORT STREET, MANCHESTER.



The Coal Shortage and cutting down of street lighting will
enable you to sell more

BATTERIES

Buy only those with a reputation for
1—LONG LIFE. 2—RECUPERATIVE QUALITIES.
3—GUARANTEE.

All Batteries bearing this Label can absolutely be relied on.

No. 3 guaranteed 3 months
No. 4 " " 4 "
No. 6 " " 6 "

Packed in cardboard outers containing 3 dozen Batteries.

14 different patterns in Pocket Lamp cases in
stock. Write for prices and sample collection.

MILLARD BROS., LTD., 123 Houndsditch, London, E.C.

Telegrams: "Sourcrouit (ALD), London."

Telephone: Avenue 3737.



W. LUSTY & SONS,

TELEPHONES:
EAST 755, 1620, 4200, 4201.

TELEGRAMS:
"COMPARISON, POP, LONDON."

OFFICES:
110 116 UPPER NORTH STREET,
POPLAR, E. 14.

WORKS:
Russia Wharf & Saw Mills,
BELL RD., BROMLEY-BY-BOW, E. 3,
and Eastern Saw Mills, POPLAR, E.

PACKING CASES

FOR EXPORT & HOME TRADE.

WOOD BOXES AND TRAYS OF EVERY DESCRIPTION

Partitioned Cases & Crates

Benches, Tables and other Joinery

Shooks and Prepared Sawn Wood

Specialities:

LINDERMAN JOINTED SHOOKS.

CHEAP, NON-RETURNABLE, COLLAPSIBLE CASES FOR HOME TRADE.

BRITISH MADE
TIN FOIL

Highly polished foils—printed, lacquered, embossed or plain.
Guaranteed free from lead for tobacco, cigarettes, food-
stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-
coated with tin for rubber solution, artists' colours,
tooth pastes and other toilet preparations.

Manufactured by

Venesta Ltd.
1, Great Tower St. E.C.
London
England

Electric

Pocket Lamps

HAND LAMPS, TORCHES, SMALL DYNAMOS,
MOTORS, SHOCKING MACHINES, ACCUMU-
LATORS, etc.



NEW PRICE LISTS
now ready.

AND DO NOT FORGET
OUR SPECIAL

SAMPLE OFFER

to send you one dozen complete Pocket Lamps, all
different, retailing at from 2/6 to 5/- each (together
with a few blank retail lists to show your customers)
for 27/6 net cash, carriage paid.

ARCHIBALD J. WRIGHT, Ltd.

Manufacturing Electricians,

**61 Eden Grove, HOLLOWAY,
LONDON, N. 7.**

USE UNSKILLED LABOUR DO WORK
QUICKER, SAVE LABOUR.

Labour-Saving Machinery

**FOR GLASS BOTTLE FILLING,
JAR FILLING, SHALLOW TIN FILLING,
FLASK, CAN AND DRUM FILLING.**

Machines for filling all liquids and semi-liquids in any shape
or size of receptacle. Write for particulars.

**Roberts' Patent Filling Machine Co.
BOLTON.**

Labour-Saving Machinery, in comparison to what it can
save, NEVER COSTS SO LITTLE AS NOW.

ASBESTOS FILTER FIBRE

PURE, NEUTRAL AND INSOLUBLE.

Specially pre-
pared for the fil-
tration of Water, &
Beer, Spirits,
Vinegar, Wines,
Gelatine, Pharma-
ceutical Products
and Essences.

**GIVES A CLEAR AND
SPARKLING FILTRATE
AT A MINIMUM COST.**

Write for Samples and Prices to
**TURNER BROTHERS ASBESTOS CO., Ltd.,
ROCHDALE, England.**



The People's Homes and the People's Money

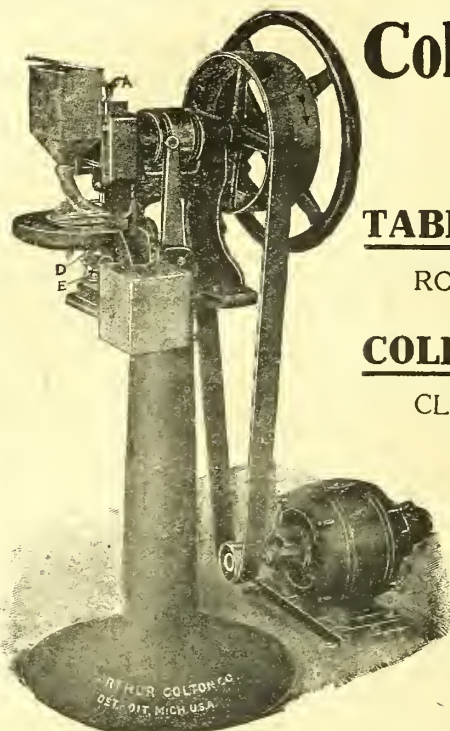
IT has been reliably estimated
by two eminent architects
working independently—and
their conclusions have been con-
firmed in practice—that for technical
reasons a saving of £30 per house can be
effected in new housing schemes if pro-
vision is made at the outset for the use
of gas fires instead of coal grates. The
“technical reasons” include the possibil-
ity of providing a much smaller flue
outlet for the fires and doing away alto-
gether with chimney breasts and chimney
stacks.

Adopting this course, then, the Gov-
ernment might save some £15,000,000
on that amount of the people's money
which they propose to lay out on the
erection of the people's houses; while
the tenants would further benefit by the
increased floor space secured by the
abolition of the bulky structures before
mentioned, and by the convenience of
having ready at hand, clean, economical
and labour-saving gas apparatus.

*Further information can be obtained on
application to the Secretary—*

**THE BRITISH COMMERCIAL
GAS ASSOCIATION**

47 Victoria Street, Westminster, S.W. 1



Colton's Pharmaceutical Machinery.

TABLET MACHINES — SINGLE PUNCH AND
ROTARY TYPE. **GRANULATORS.**

COLLAPSIBLE TUBE FILLING AND
CLOSING MACHINES, FOR HAND OR POWER.

COMPLETE PLANT FOR

PILL-MAKING.

JOHN J. GRIFFIN & SONS, LTD.,
Kingsway, London, W.C.2.

REDUCTION IN PRICES

'Ever-Ready' 'Radio' Blades

are now reduced in price to the Trade

24/- PER
GROSS

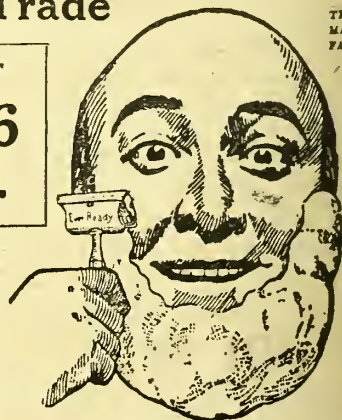
TO RETAIL AT
6 for 1/6
12 for 3/-

This price reduction will create an enormous demand for these famous Safety Razor Blades. Are *you* stocked to meet the increased business? Order *now*, and don't disappoint your customers. Remember the high quality of the Ever-Ready 'Radio' Blades is not only maintained but improved.

'EVER-READY' SAFETY RAZOR CO. LTD., 130 Gt. Portland Street, London, W.1.

Refuse and Beware of Inferior Imitations.

'EVER-READY'
'RADIO' Blades
fit Star, Clemak,
Gem, as well as
'EVER-READY'
Safety Razors



TABLET MACHINES

FOR COMPRESSING TABLETS OF EVERY KIND

FROM
SOUP
TO
SACCHARIN

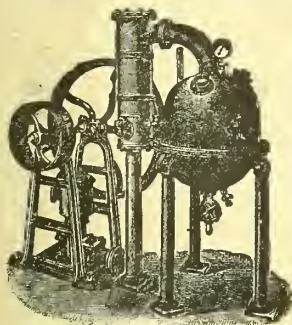
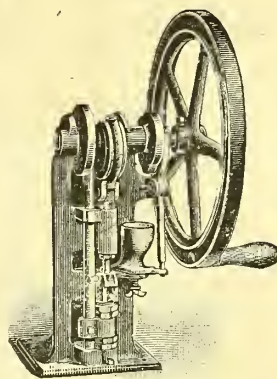
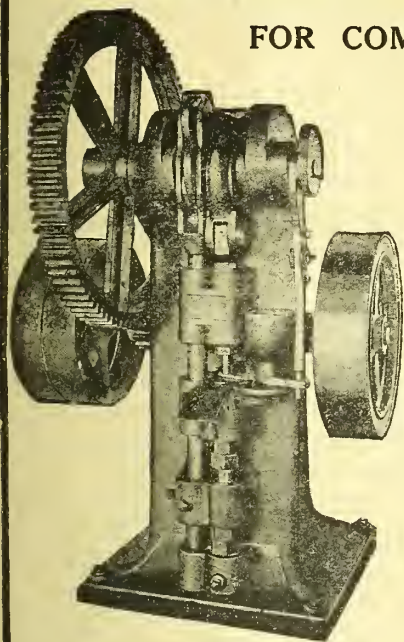
IMMEDIATE DELIVERY

THOMPSON & CAPPER LTD.

(Sole Agents for **STOKES MACHINE CO.**)

Manesty Buildings, College Lane, LIVERPOOL.

Telephone: Royal 2060. **ESTABLISHED 1843.** Telegrams: "Sanitas Liverpool."



STILLS, VACUUM STILLS, VACUUM PANS.
EVAPORATING PANS.

AUTOClaves AND DIGESTORS.
SPECIAL APPARATUS AND PLANT
FOR MANUFACTURING CHEMISTS.

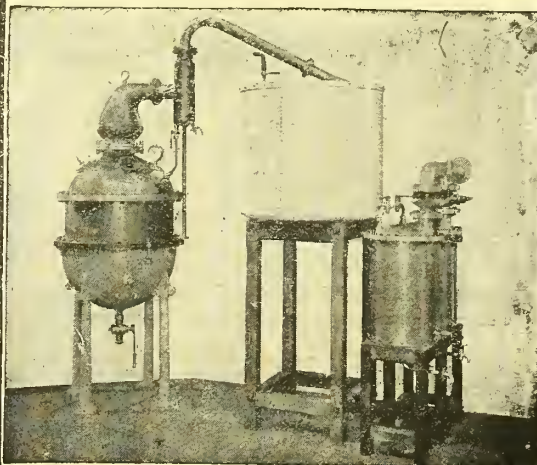
SOLE MAKERS of BENNETT'S PATENT 'IDEAL'
ANNULAR FILM CONDENSERS.
SHEARS' PATENT MULSER.

BENNETT, SONS & SHEARS, LTD.

ENGINEERS & COPPERSMITHS,

43 & 44 Shoe Lane, LONDON; E.C. 4.

COPPER Vacuum Distilling Apparatus



COPPER VACUUM STILLS

for FINE CHEMICALS, ESSENTIAL OILS,
MALT EXTRACTS, Etc. Etc. Etc.

JOHN DORE & CO.

Distillers' Engineers & Coppersmiths,

28-30 HIGH STREET, BROMLEY, E. 3.

EASELIB FOR PILES

IS NOW ON THE P.A.T.A.
and protected at FACE VALUE.

EASELIB is supplied in COMPRESSED
TABLET FORM for INTERNAL USE
in 1/3 and 3/- BOXES, and also

EASELIB OINTMENT

in Collapsible Tubes with special nozzle
for OUTWARD APPLICATION.
1/3 and 3/- TUBES.

WE ARE ALSO PACKING A

COMBINED PILE TREATMENT

Comprising a 3/- size EASELIB, and a
3/- " EASELIB OINTMENT.

TO RETAIL AT 5/- EACH.

If you will CO-OPERATE WITH US, and display
one of our Showcards, we will give a **FREE
BONUS** of one box with each 1 d. z. ordered, and
**ADVERTISE YOUR NAME
IN YOUR LOCAL PAPER.**

Under these Terms YOUR PROFIT WILL BE

4½d. on the 1/3 Size.
10½d. " " 3/-
15 " " 5/-

AND FREE PUBLICITY.

ALL WHOLESALE CARRY STOCKS OF EASELIB.
OUR ADVERTISING CAMPAIGN IS NOW IN FULL SWING.

DO NOT MISS SALES and let your
customers procure supplies from your
competitors.

Order from your usual Wholesaler, or
direct from

**THE EASELIB
REMEDIES CO.,**
2 Upper Road, BATLEY.

**Printing for
Chemists**
Established in 1842

To day we use
modern methods
and machinery in
the production of
work of the
highest character.

Ford Shapland & Co., Ltd.

Gt. Turnstile,
High Holborn, W.C.1.
Telephone, City 65.



EXCELSIOR CREPE BANDAGES.

FAST EDGE

Owing to the War, the supply of Crepe Tapeau
Bandages is discontinued. We, art. therefore,
placing on the market a bandage of English
manufacture which will be sold as

TRADE MARK
EXCELSIOR
CREPE
BANDAGE



**GIMBER'S EXCELSIOR
CREPE BANDAGE**

An Elastic Bandage. Con-
taining no India-rubber.
Superseding Elastic Stock-
ings, Webs, Bandages, and at half the cost.
Three sizes, about 2, 2½, and 3½ inches wide.
Excelsior Crepe Abdominal Binders.—Useful after
many Abdominal Operations, and for ladies
after confinements. Two sizes: 8 & 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all
Bandages not bearing the above Trade Mark on the Wrappers.

Wholesale of
W. GIMBER & SON, Surgical Bandage and Instrument Makers,
44 Queen's Rd., FLEETMAN, LONDON, S.E.
And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c.
Telephone: New Cross 1661. Descriptive Circular & Price List on application.

Buy direct from the Manufacturer.

The

Bouverie Seamless Rubber Works

GLOVES, TEATS, SOOTHERS
and every description of seamless goods.

Inquiries invited.

Samples gladly submitted.

**H. NORTHCROFT, 85 Bouverie Road,
STOKE NEWINGTON, N.**

W. DAVIS

100 WOOD ST., E.C. 2
Phone: City 8220.

for OPEN
WINDOW
DISPLAYS

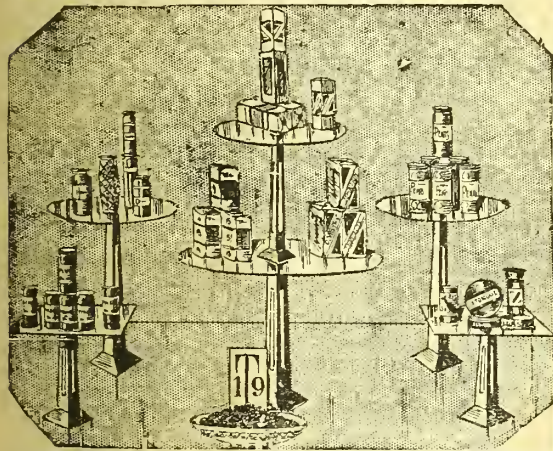
WRITE FOR LIST, SHOWING MANY NEW DESIGNS FOR OPEN WINDOW DISPLAYS.



W. DAVIS

100 WOOD ST., E.C. 2
Phone: City 8220.

for OPEN
WINDOW
DISPLAYS



Set 118.—Consisting of 2 18 in. OAK PEDESTALS, 3 12 in. ditto, and 1 24 in. ditto, with 1 24×18, 2 18×12, and 1 16×10 in. OVAL, and 2 18×10 in. OBLONG PLATE GLASS SHELVES and 1 WILLOW BOWL.
PRICE 84/- COMPLETE.

My WINDOW PAPERS are 4/3 per roll of 12 yards 21 in. wide. WRITE FOR SAMPLES.

Parnall
And Sons.

Proprs. W & F Avery Ltd

Established over 100 years

Shop Front

Builders



A typical example of our work

Your Packets & Parcels

||

WILL BE NEATER AND
STRONGER IF THEY ARE
FASTENED WITH

**"IRIS" GUMMED
TAPE**

||

IT IS CHEAPER AND BETTER
THAN STRING OR WAX.

IT EFFECTUALLY PREVENTS
PILFERING OR INTER-
FERENCE WITH THE CON-
TENTS OF A PARCEL.

IT CAN BE SUPPLIED
PRINTED WITH YOUR NAME
AND ADDRESS AND ANY
ADVERTISING MATTER
DESIRED.

PRINTED GUMMED TAPE

IS ALWAYS

PRODUCTIVE ADVERTISING

Write for Samples and Prices—

R. A. STEPHENSON, Ltd. 130 Queen Victoria St.,
LONDON, E.C. 4

Telephone: CITY 2577.

Show Case

Makers

We give dignity and elegance
to your Shop and create an
Atmosphere of Distinction

C. & D. : 128 Branches now open : SUMMER
Dept. **BIRMINGHAM** : ROW :

IMMEDIATE DELIVERY



It's
all-British

There's
big
business
for you in
SORBO
SPONGES

SORBO Sponges are sure trade bringers; they sell at sight—their novelty brings customers in by the dozen and—they show you an excellent profit.

Sorbo Sponges are incomparable as regards quality, absorption, softness of texture and durability—they are ALL BRITISH, and are sold at protected retail prices.

There are no other sponges—natural or artificial—to equal Sorbo Sponges—repeat orders from all parts of the world prove this to be so.

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE

Protected Retail Prices: No. 1, 1/3; No. 2, 2/-; No. 3, 3/-; No. 4, 5/-; No. 5, 10/6.

Place your order to-day. Parcels of 3 dozen assorted sponges, less 33⅓% and 3¼% cash, carriage paid U.K.

SORBO RUBBER-SPONGE PRODUCTS, LIMITED,
24, Walbrook, London, E.C.4

Sorbo Sponges can be obtained from leading wholesalers.

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON, E.C.4.

SEPTEMBER 20, 1919

This Supplement is inserted in every copy of The Chemist & Druggist

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No. : City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.W.—Old-established Business; chiefly ready money; returns £100 per week; *net profit* £1,000 *per annum* (rate of); double-fronted shop, corner position; long lease; no near opposition; price £1,800.

2.—ESSEX.—A brisk Cash Retail Business, situate in shopping thoroughfare; returns, under management, between £3,000 and £3,500, at good prices; modern house; rent £90; held on lease; price £1,500.

3.—LONDON, W.—Old-established Business, situate in busy shopping thoroughfare; returns approach £20 weekly, at fair prices; good residence; rent £60; long lease; price £520.

4.—LONDON, N.W.—Retail and Dispensing Business; present and upwards of 25 years; returns about £50 weekly; *good profit*; double-fronted shop, fitted in mahogany; no near opposition; offer wanted.

5.—LONDON, N.—Cash Retail Business; established 40 years, and in present hands 29; returns exceed £1,000 per annum; *gross profit* £390, and *net* £300; 7-roomed house; private entrance; rent £50; no near opposition; price £450.

6.—LONDON, N. (Main Thoroughfare).—Ready-money Business; returns exceed £2,000; well-appointed shop and good residence; endor's own property; the whole might be purchased if desired.

7.—SLOANE STREET (Within Easy Distance of).—Good-class business, chiefly dispensing, at full prices; well-appointed Pharmacy; position unique; *net profit* £1,000; price to be agreed suitably.

8.—SOUTHERN COUNTY (Near Coast).—Good-class Retail and Dispensing Business; established many years; returns last year between £1,800 and £1,900; *net profit* £576; comfortable residence; large garden; rent £50; terms, goodwill £300, stock and fixtures at valuation.

9.—WEST OF ENGLAND.—High-class Dispensing and Retail Business; returns between £4,000 and £4,500 per annum; *gross profit* about 45%; well-fitted shop; further particulars will be furnished on receipt of a banker's reference.

10.—LEEDS.—Middle-class Retail and Dispensing Business; turnover between £900 and £1,000, at good prices; comfortable residence, with garden; no reasonable offer refused.

11.—SOUTH COAST.—Old-established Business; returns about £1,000, and improving every month; *good profits*; rent moderate; price £650.

12.—SUSSEX.—Good-class country Retail Business; returns between £900 and £1,000 yearly, increasing; *net profit* 40%; good residence; small garden; rent £50; held on lease; practically no opposition; price £800 or near offer.

13.—MID-KENT.—Unopposed Business, capital situate in the midst of fruit- and hop-growing district; returns average about £1,200; *net profit* 25%; good residence; rent £40; price to be arranged.

14.—WESTERN COUNTY.—Unopposed Business; corner position in main thoroughfare; returns £60 weekly, at fair prices; small residence; held on lease; price to be agreed.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the Value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

1s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

EASTERN COUNTIES.—Drug Store with Dental Surgery for Sale; established over 100 years, in populous district; no position; suitable for unqualified, but would make good opening for qualified. Apply 70/21, Office of this Paper.

MIDLANDS.—Unopposed Business, in pleasant and healthy country; good-class Dispensing, Prescribing, and little photography, which can be considerably increased; returns over £500, increasing, showing excellent profits; low rent and expenses; convenient house; exceptional opportunity to acquire sound going Business with scope; every investigation to genuine offers. Reply 75/37, Office of this Paper.

NOTTINGHAM DISTRICT.—£5,000 will purchase profitable modern Business with property; large well-fitted shop; good lease; freehold premises occupying 240 sq. yards; valuable proprietary and Prescribing connection; no agents; no part payments. Apply 71/39, Office of this Paper.

WOLVERHAMPTON, NEAR.—Genuine Business; main thoroughfare; rent only 2s. 6d. clear; two rooms and attic shop; takings last year over £900; 4,000 N.H.I. scripts included; without N.H.I. would suit unqualified; quick sale best offer to £350. Apply 71/17, Office of this Paper.

BUSINESS for Sale by private treaty; South Wales district; Wholesale Manufacturing Sundries; trade established among Chemists, Hairdressers, Grocers, and General Dealers; well-known profitable line; established over quarter of a century; annual turnover £2,000; plenty of scope for enterprise; purchase of premises optional; living accommodation if needed; every facility for personal investigation; capital required £3,000 to £4,000; Sellers' letter of introduction required; ill-health sole cause of sale. Apply 74/30, Office of this Paper.

PRIVATE TREATY.

To be Immediately Disposed of by
PRIVATE TREATY.

All the
SHOP and STORE STOCK
now lying in the Shop and Store-room at
FORE STREET, REDRUTH, CORNWALL.

SAMUEL ARTHUR invites Tenders for the above (now retiring from the Retail), which he has successfully carried on for fourteen years.

The Stock consists of the usual Chemist's Stores, in good condition. Also the complete Fittings, Utensils, etc., which are modern, comprising Counters, Nests of Drawers, Safe, Dispensing Screen, Shop Rounds, etc., etc.

For further particulars apply at the above address. All applications replied to.

FOR SALE.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

FOR Sale.—One Ironac Jacketed Pan; capacity 40 gallons; never used; immediately available. Clement & Johnson, 19 Sicilian Avenue, W.C. 1.

FOR Sale.—2½ cwt. Stearine; what offers? Reply 25 Duncan Terrace, London, N. 1.

APPRENTICESHIPS.

MR. BROWN has a vacancy for educated youth as Apprentice. 186 Mare Street, Hackney, N.E.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C. 3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—SUSSEX (Close to Sea).—Good-class Retail and Dispensing Business; charmingly situated; returns £1,850; *net profit* nearly £600; fine house and splendid garden; well-stocked Pharmacy; best position in small country town; price £1,000, or valuation terms arranged.

2.—WEST END.—High-class Dispensing Business for Disposal through ill-health; returns approach £3,200; splendid position; can be made do £5,000; handsome Pharmacy; fully stocked; price £2,000; references required.

INTENDING VENDORS

We are in immediate want of sound businesses in all parts of England, especially London, South Coast, S.W. and Western Counties, Midlands and Home Counties, at prices ranging from £300 to £3,000. Cash buyers waiting; private register kept. Best attention and quick sales guaranteed. Terms sent on application. *Established 1870.*

AGENCIES.

4s. 6d. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

ADVERTISER, opening office in Birmingham, would act as Agent for high-class Perfumery house in Midland Counties, etc.; 14 years' experience in the trade. Address with full particulars 73/1, Office of this Paper.

AGENTS wanted in all large centres with first-class connection amongst Chemists, Hairdressers, and Stores, for the sale of Toilet Preparations; liberal terms. Apply 76/8, Office of this Paper.

MANUFACTURER'S Agent, with well-established connection in Australia, desires agencies covering Drugs, Essential Oils, Perfumery, and Toilet Requisites, etc. Apply in first instance to 20/72, Office of this Paper.

QUALIFIED Chemist going to South Africa at earliest opportunity is open to take out good Agencies; non-clashing; good-class lines only considered. Apply 58/32, Office of this Paper.

RUBBER and Vulcanite Dressing Combs, Tortoiseshell Slides, Pins, etc.—Gentleman, travelling Great Britain, with good connection with Hairdressers, Chemists, Fancy Dealers, wishes to obtain good Agency for above. Apply 74/28, Office of this Paper.

SOLE London Agency wanted for a first-class make of Tablets, including Bismuthated Magnesia, attractively put up in tins or bottles; retail price 7½d. and 1s. Replies from a good provincial house, who could deliver promptly, invited, to Managing Representative, 247 Camberwell New Road, S.E. 5.

TO FIRMS DESIROUS OF CAPTURING GERMAN TRADE.

AN OPPORTUNITY FOR WHOLESALE AND EXPORT DRUGGISTS AND MANUFACTURING CHEMISTS, PERFUMERS, ETC.

Demobilised Chemist, 33 years of age, seeks Representation of one or two first-class houses; large connection on the Continent, in Russia, Poland, Germany, South Africa, and India. Able Linguist, good organiser, and experienced traveller. Would consider position as Travelling Representative. Address 76/28, Office of this Paper.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,
45a MARKET STREET, MANCHESTER.
ESTABLISHED OVER HALF A CENTURY.
Telegraphic Address: "Tomtom."

TRAVELLER, working Northern Counties, also Ireland, land, Wales, is open for Representation of good house would accept Agencies for said ground on allowance to expenses and commission; established connection Retail Chemists and Stores (Wholesale also in Scotland and Ireland); enterprising house essential. "Business" (76/2), Office of this Paper.

BUSINESSES WANTED.

4s. 6d. for 50 words or less; 8d. for every additional 10 words or less, prepaid.

BIRMINGHAM or DISTRICT.—Required, by Pharmacist, sound Business; returns about £2,000; main road preferred; available. Particulars in confidence to "Pharmacist" (70/), Office of this Paper.

KENT.—Sound Cash Business wanted; good living accommodation essential; cash available £650. Apply 73/7, Office of this Paper.

MIDLANDS.—Required, by Pharmacist, a sound, genuine Business (at once); capital at command £2,000; country business preferred, but not essential; one with Wine licence or Office attached not objected to. Replies treated in strict confidence by "Urgent" (72/54), Office of this Paper.

NEAR LONDON.—Good middle-class Business, preferably within 15 miles of Westminster, but outside London; income to £1,500 cash or thereabouts; good house desirable; refer exchanged. Please address "Chemist," Osborne House, 61 F Street, Stourbridge, Worcestershire.

WEST OF ENGLAND, Bristol, or within 20 miles radius, sound Business; scope for increase; no N.H.I.; cash available £500. Full particulars, "Chemist," 66 Charlwood Street, Victoria, London, S.W.

ADVERTISER, who has been in sole control of a Retail Business for some years, requires good, sound Retail Business or would not object to manage a business on partnership basis for a gentleman wishing to retire from active participation in trade and banker's references supplied. "Forward" (72/), Office of this Paper.

BUSINESS required in small town or village within reasonable distance of London, showing a net profit of £350-£400 per annum; or a neglected Business, with scope for increase, would be considered; good living accommodation essential; refer down. Full particulars of returns, profits, rent, rates, etc., for disposal, price asked, opposition, etc., to "Scapa" (75/9), Office of this Paper.

GENERAL Retail Business wanted; must have scope for improvement; capital available £350; balance, if any, by arrangement. Particulars, in confidence, to 75/34, Office of this Paper.

PHARMACIST requires for cash Retail Business in Liverpool or neglected one would suit if scope for increase; or Partnership in sound business. Particulars and price in confidence to "Aspirin" (72/35), Office of this Paper.

PHARMACIST wishes to purchase genuine, good-class Business and Dispensing Business in healthy locality, with convenient living accommodation; West of England or Southern Counties; particulars furnished would be treated by advertiser in strict confidence; managership, with view to purchase, would be obtained. "Major" (76/17), Office of this Paper.

SMALL Drug Business wanted, suit unqualified, with living accommodation; country Stores not objected to; would der take temporary management with view to succession. Please state lowest price and full particulars in strict confidence to "Chad," 52 Grantham Road, Sleaford, Lincs.

SOUND Cash Business required (at once) in good locality; suit unqualified, with living accommodation; cash available £250 if more rest by agreement; neglected business not objected to; scope for increase; replies will be treated strictly confidential. Short, 4 Langdale Road, Thornton Heath, Croydon, Surrey.

SOUND, good-class Family Business, returning nearly £1,000 principally cash; no Optics, not much N.H.I.; South, East Coast or Southern Counties; not in London, but outside; not objected to; good living accommodation essential; managership, strict investigation; strictest confidence promised; cash available. "Francis" (76/24), Office of this Paper.

WANTED, small Business a little way out of London, but within easy access to the City; living accommodation essential. "S. A. P." (70/10), Office of this Paper.

WANTED, Cash Drug Stores, in town or country; owner would join Chemist with a view to succession. Full particulars to "F." (74/31), Office of this Paper.

WANTED, good-class Business in South Wales, with scope for increase. "Cash" (74/13), Office of this Paper.

£5 GIVEN for information (if acted upon) of a good business for Chemist's Business; London suburb or country, adjacent, "Arbuck" (70/100), Office of this Paper.

SITUATIONS OPEN.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

RETAIL.

BOURNEMOUTH.—Junior Assistant for Light Retail; outdoors; hours 9 to 7; Pharmacy classes at the local Municipal College. Apply, stating age, experience, and salary required, to K. Matterson, 12 The Arcade, Bournemouth.

BRECON.—Competent Assistant wanted, accustomed to good Retail, Dispensing, and Photographic business (outdoors); state full particulars in first letter, photo. Gwillim, Chemist, Brecon.

BRIGHTON MUNICIPAL TECHNICAL COLLEGE.

(Recognised by the Pharmaceutical Association as a Training College.)

LECTURER IN PHARMACY. Major qualification essential. Commencing salary £350. Forms of application may be obtained from the undersigned, and must be returned not later than 29th September, 1919.

F. HERBERT TOYNE,
Secretary.

54 Old Steine, Brighton.

BRISTOL.—Wanted, in about six weeks, Mauager; Minor qualification; cash business and N.H.I.; industrial district; close p.m., Saturdays 8, Wednesdays 1; no Sunday duty. State age, experience, references, if married, salary with rooms over premises, with photo (to be returned), to Hedley Price, Chemist, Ashton at Bristol.

BRISTOL.—Wanted, a good all-round, unqualified Assistant. B Apply, giving usual particulars, also last two references, to handler & Son, 6 Church Road, Bristol.

BURY.—Qualified Manager for Light Retail and N.H.I.; elderly man not objected to; junior kept. Reply, stating age, experience, and salary required, to 76/1, Office of this Paper.

BUXTON.—Junior or Improver, male (indoors); comfortable; good-class Dispensing business. State age, experience, eight, salary, and photo, to Thresh, 4 Spring Gardens, Buxton, Derbyshire.

DESHIRE.—Competent Assistant required for good-class business in centre of country town; unqualified; single; reliable; outdoors; hours 8.30 to 7, Wednesdays 1 p.m., Saturdays 9 p.m.; extra duties; please state age, height, experience, and salary, c. Young, Chemist, Nantwich.

CITY OF LEICESTER EDUCATION COMMITTEE.

Municipal Technical School (J. H. Hawthorn, Principal). Applications are invited for the post of Chief Lecturer in Pharmacy at a salary of £350 per annum, rising by annual increments of £10 to £450. The Lecturer must hold the Major Diploma of the Pharmaceutical Society, and will be required to conduct classes preparing for the Minor Examination of the Pharmaceutical Society in Pharmacy, Materia Medica, Dispensing, etc. Full particulars and forms of application, which must be returned immediately, may be obtained from the Registrar.

F. P. ARMITAGE,
Director of Education.

DARLINGTON.—Senior Assistant required; age about 35; abstainer preferred. Apply, stating age, height, experience, knowledge of Photography, and salary required, to Waters, Chemist, Darlington.

DONCASTER.—Required (immediately), an Assistant (22-24) for a General Family and Dispensing business conducted on aggressive lines. Apply, giving full particulars as to age, height, experience, salary required (outdoors), whether qualified or not, to M. H. Stiles & Son, The Rexall Pharmacy, Doncaster.

LEFORD.—Unqualified Assistant (male) wanted (outdoors) for quick Retail and N.H.I. Dispensing. Apply, stating salary required, with references, to J. Patterson, 52 Ilford Lane.

LIVERPOOL.—A Junior Assistant, with Dispensing experience. Clubb & Co., 138 Smithdown Road, Liverpool

LIVERPOOL.—Qualified Managing Assistant; not over 35; working class and shipping business; salary £5 and house; healthy, open neighbourhood; partnership or succession in two three years; please give particulars, family (if any), experience, Apply 74/35, Office of this Paper.

LANELLY.—Smart Assistant Wanted; Dispenser and experienced in quick cash business; one other kept; reasonable terms; no Sunday duty. Apply, stating full particulars, age, experience, salary required, etc., Henderson, 142 Station Road.

LONDON (Western Suburb).—Wanted (immediately), young lady Assistant; principally for N.H.I. and stock. Apply personally or send particulars of experience, salary required (outdoors), etc., to Davies, c/o Freeman & Son, 100 Dalling Road, Womersley, W.

LONDON.—Lady, for N.H.I. and Retail; Minor qualification essential; state when disengaged, age, salary required (outdoors), and whether any previous Retail experience. Apply 28/35, Office of this Paper.

LONDON, E.C.—Wanted, Junior Assistant, with Dispensing experience; outdoors; easy hours. Apply, with full particulars of experience, age, salary expected, etc., to Pollock & Co., 133 Fenchurch Street, E.C. 3.

LONDON, S.W.—Wanted, a capable Assistant for Light Retail, Dispensing, and Photographic; hours 9-7; weekly half-day; also part-time (not evenings). Salary required and references to Walker, 86 Moyser Road, Streatham, S.W. 16.

LONDON, S.W.—Unqualified Assistant or Junior wanted; state full particulars, references, age, married or single, salary required, photo if convenient; optical experience desirable but not imperative. "Brixton" (70/20), Office of this Paper.

LONDON, N.—Qualified Manager required for branch shop with house attached; middle-class district; moderate amount of N.H.I. Apply, giving full particulars and salary expected, to 73/2, Office of this Paper.

LONDON, N.W.—Qualified Assistant wanted for Dispensing business (outdoors). Apply, in writing, giving full particulars, P. Davidson, Ph. Chemist, 342 High Road, Brondesbury, N.W. 6.

LONDON, S.E.—Experienced Assistant required by good-class Family and Dispensing Chemists; good Counterman and Dispenser; permanency; outdoors; good prospects for a suitable man. Apply, stating age, experience, salary required, and when disengaged, to 74/39, Office of this Paper.

LONDON, S.E.—Qualified man wanted. Apply, stating age, experience, and salary required, and photo if possible, H. I., 81 Deacon Street, Walworth, S.E.

LONDON, S.W.—Qualified Assistant wanted. Apply, stating age, experience, and salary required, and enclosing photo, to Parson C. Baker, Ph.C., 174 Victoria Street, S.W. 1.

LONDON, S.W.—Assistant, with good Dispensing and Counter experience, wanted; outdoors; hours, 9-8, Saturday 1; Sundays, alternate evening only, 6-7.30. Holt Green & Co., South Kensington Station.

LONDON, W.—Qualified Assistant required; immediate vacancy. Write or call, Rouse & Co., Wignmore Street, London, W.

LONDON, W.—Required, an experienced young lady for the Perfumery Counter; must be a good Saleswoman and accustomed to introducing Novelties and new lines. Apply E. C. Evans, Pharmacist, Whiteley's, Ltd., Westbourne Grove, W. 2.

LONDON, W.10.—Capable Assistant wanted; Dispensing and Counter. Reply, with full particulars, salary required (outdoors), experience, etc., J. R. Faulkner & Co., 173 Ladbroke Grove.

LONDON, W.C.—Required (at once), young Assistant; used to good-class business; must possess thorough knowledge of Photographic Sundries. Boutalls, Ltd., 150 Southampton Row, W.C. 1.

MAIDA VALE, W.—John Keal requires (immediately), for his business at 241 Elgin Avenue, W. 9, a competent Junior to Dispense and assist with Counter and Stock; hours 9 to 8; two hours alternate Sundays. Apply Manager, or 'phone Hampstead 1549.

MANCHESTER.—Wanted (immediately), Junior Assistant for quick business in working-class district; quick and accurate Dispenser. Apply, stating salary required, age, and references, to Beal, 446/8 Rochdale Road.

MANCHESTER.—Junior Assistant required, age about 20, for Dispensing and Light Retail; Photography; state salary and reference. Watts, Chemist, Stretford.

MANCHESTER ROYAL INFIRMARY.

REQUIRED, an Assistant Pharmacist, good Dispensing and general training. Knowledge of buying Drugs and Surgical Stores an advantage.

Some experience in management and stockkeeping essential. (The above particulars will be carefully considered in regard to commencing salary.)

Apply, giving full particulars as to age, experience, salary expected, when at liberty, etc., to

FRANK G. HAZELL,
General Superintendent and Secretary.

MANCHESTER.—Unqualified Assistant or good Junior wanted for good-class Retail and Dispensing business; easy hours. Apply, with full particulars, to Edwards, Pharmaceutical Chemist, Fallowfield.

MIDDLESBROUGH.—Junior Assistant required; knowledge of Photography preferred. Apply, stating age, height, experience, and salary required, Waters, Chemists, Middlesbrough.

MID-KENT.—Qualified Manager required (immediately) for small country business near Maidstone; comfortable home and pleasant surroundings. State terms (indoors) and reference in first instance. Apply 76/7, Office of this Paper.

MIDLANDS, Nr. BURTON.—Qualified Manager anxious to get hold of a good lucrative permanency required at once; state age and when at liberty. "Mid" (73/90), Office of this Paper.

NEWPORT, MON.—Competent Assistant wanted; accustomed to good Retail, Dispensing, and Photographic business (outdoors); state full particulars in first letter, photo. Badgett, Chemist, Newport, Mon.

NELSON.—Qualified Branch Manager wanted. Apply, giving usual particulars as to age, height, and experience, and stating salary required, to Hartleys, Chemists, Railway Street, Nelson, Lancashire.

NEW BRIGHTON, CHESHIRE.—Capable and experienced Assistant required (at once); able to be left in charge; must have highest references as regards character and ability; easy hours. Ferriday, 76 Victoria Road.

PLUMSTEAD, S.E.—Qualified Manager for Photographic and Dispensing business; outdoors. Apply to A. Goldthorpe, M.P.S., 111-113 High Street, Plumstead, S.E. 18.

PLYMOUTH.—Assistant wanted, beginning October; Dispensing business; short hours arranged for student; state age, experience, and salary required. S. V. Roberts (Hearder's), 26 Westwell Street, Plymouth.

SALISBURY PLAIN.—Wanted, qualified Assistant for permanent barracks at Bulford: £4 weekly, commission, free rooms, and electric light; good Salesman with undeniable references essential; splendid opportunity for energetic man. Apply Chceatham, Chemist, Tidworth.

SOUTH WALES.—Wanted (immediately), qualified Manager for Branch, mining district; good salary to a thoroughly reliable and trustworthy man. Apply "Rhei" (77/7), Office of this Paper.

STAFFORD.—Assistant for Dispensing Counter; applicants must have had good Dispensing experience and be quick and accurate; please state fullest particulars of experience, etc., also salary required, enclosing photograph if possible. J. & H. Averill, Pharmaceutical Chemists, Stafford.

WATFORD.—Wanted (end of September), two unqualified, gentlemanly Assistants (outdoors), one for Dispensing and preparing Proprietarys, the other chiefly for Counter and Stock; applicants must be competent, obliging, and used to a good-class brisk business; undeniable references essential; the Assistant applying for the position at the Counter must be conversant with modern business methods and possess an intimate knowledge of the handling of Photographic Apparatus and Sundries; the Dispenser must be quick, accurate, and used to N.H.I. work. Full particulars should be sent as to previous experience, age, height, salary expected, when disengaged, Chater, Chemists, Watford.

WESTON-SUPER-MARE.—Junior or Improver; Light Retail and Dispensing; knowledge of Photography preferred. Apply, with usual particulars, to C. Herbert Thomas, Knightstone Pharmacy, Weston-super-Mare.

WEYBRIDGE.—Junior Assistant required (outdoors); one accustomed to good-class Dispensing business; please give full particulars of experience, age, salary, etc. W. N. Ashworth, Church Street.

ABOUT October 1st.—Junior Assistant (demobilised preferred); outdoors; good opportunity for experience. Fullest particulars as to experience, salary, etc., to Pelham Young, 219 High Street, Hounslow. 'Phone: 153 Hounslow.

ALSO & QUILLER, 137 Sloane Street, S.W. 1, require a young gentleman as Junior Assistant; unqualified. Apply, with full particulars, as above.

ASSISTANT wanted (first week in October) for Light Retail and Dispensing; outdoors. State age, experience, and salary required to T. Coleman, 81 Nightingale Lane, S.W. 12.

ASSISTANT for Counter and Window-dressing; good-class business; state experience, references, and salary required. C. A. Maries, Pharmacist, Waterloo, Liverpool.

ASSISTANT wanted (early October), Junior or lady; good-class Retail, Dispensing, and Photographic; outdoors; no Printing or Developing; no Sunday duty; state age, experience, salary required, references, and when disengaged. H. Barnett, Chemist, Hythe, Kent.

ASSISTANT; unqualified; competent. State wage required, all particulars, to Finn, 193 Battersea Park Road, S.W. 11, or 'phone Battersea 1994.

ASSISTANT (qualified or unqualified) wanted for five or six weeks from October 1st, in a seaside business; must be reliable and well up in Photography. Write, with full particulars and salary required (outdoors), to 77/27, Office of this Paper.

CHEMIST, qualified for Counter trade, with a knowledge of Photographic business; hours 8 to 6; Saturdays 1 o'clock. Apply by letter only, Samuel Thornley, Ltd., Wholesale and Retail Druggists and Drysalers, 6 Snow Hill, Birmingham.

COMPETENT, reliable man required, qualified or unqualified; Extractor; good prospects for suitable man; easy hours; state age and salary required. T., The Medical Hall, Dartford.

ELDERLY qualified gentleman; easy hours, light duties. Apply 70/32, Office of this Paper.

GENTLEMAN holding Minor qualification required as Manager of Branch Retail and Dispensing Business, with some Photographic, at Barry Dock, Glam. Apply, stating age, experience, salary required, and enclose photo, to W. T. Hicks & Co., Duke Street, Cardiff.

GENTLEMAN, Dispenser, single, Chemist trained, and ab-stainer, under 30 years preferred, wanted for practice in London district. Apply, with references, experience, and salary, to 76/10, Office of this Paper.

GOOD Junior, outdoor, for brisk Cash trade; Counter and Stock; no Sunday or Insurance work. Full particulars, please, and when free, to Mr. Wilson, Chemist, 67 Chriep Street, Poplar, E. 14.

JUNIOR Assistant, unqualified, wanted for brisk Retail and Dispensary business; one with knowledge of Photographics; short hours. Apply, stating age, experience, and salary required (outdoors), to J. F. Collin, 25 Market Place, Norwich.

JUNIOR Assistant wanted; good Counterman and Window-dresser. Apply, with two references and full particulars, Frank Edwards, 192 Cowbridge Road, Cardiff.

JUNIOR required for Light Retail and Dispensing in country town; 50 hours weekly (outdoors); no Sunday duty; a Senior Assistant also kept. Please state age, height, salary, and experience, to Young, Chemist, Nantwich.

JUNIOR Assistant for Stock and Counter this month end; state full particulars and salary in first letter; no heavy trade; demobilised soldier would get preference if 50 or under. Bell, Mansfield, Notts.

JUNIOR Assistant required for good-class Dispensing and Retail. Apply, stating age, reference, and salary required (outdoors), to P. B. Gray, Ph.C., The Rexall Pharmacy, Rugby.

JUNIOR Assistant required at once, just out of apprenticeship, for good-class Retail and Dispensing business; must be steady and of good appearance and address; no Sunday duty. Give particulars in first letter and enclose photo (to be returned) to Hay & Co., Chemists, Gosforth, Newcastle-on-Tyne.

JUNIOR Assistant (outdoors) required, early in October, for high-class business; good Dispenser. Apply, with full particulars and salary required, J. H. Bishop, The Broadway, Tunbridge Wells.

JUNIOR Assistant for good-class Family and Dispensing business. Full particulars, experience, salary, and photo, to H. C. Neve, 10 Victoria Parade, Norbury, S.W. 16.

LADY Dispenser wanted (at once); Cash and Panel Practice; must be quick and energetic; live out entirely; hours 11 to 1.30, 7 to 9.30; no Sunday Surgery or Wednesday evenings; salary 45s. weekly; interview between 12 and 2 o'clock any day. Dr. Hanbury, 157 Roman Road, Bow, E.

LADY, Junior Assistant, about 24th, for Stock and Counter; must have had experience in a Pharmacy and done some Dispensing; three employed. J. W. Feltwell, 91 Hammersmith Road, West Kensington, W. 14.

MANAGER.—In a fortnight's time, smart Manager; good prospects; house; usual particulars. Briggs, Chemist, 585 Lea Bridge Road, Leyton.

MANAGER, qualified, for Branch in Lancashire town; exceptional terms to right man. Apply 75/32, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist; easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED wanted (immediately) as Superintendent; Light Retail and Dispensing; suit elderly man. Evison, King Street, Alfreton, Derbyshire.

QUALIFIED Manager for Branch; also experienced Assistant; give full particulars and state salary first letter. Waller & Riley, Ltd., Bradshawgate, Bolton.

QUALIFIED Assistant, mainly for Dispensing Department. High-class experience necessary, of which give full details, age, and salary required to Westmacott & Son, 17 Market Street, Manchester.

QUALIFIED Assistant, for Counter chiefly; one accustomed to brisk Cash business. Particulars to H. Bellringer, Chemist, Lower Broughton, Manchester.

QUALIFIED Junior Assistant wanted for large West End Pharmacy; experience, photograph, and salary required. 27/36, Office of this Paper.

QUALIFIED, young, either sex, for Branch in Lanes. town, at once. Particulars, experience, wages, etc. Applications not answered four days declined. "Alpha" (76/14), Office of this Paper.

QUALIFIED Assistant wanted for good all-round country business in Devon; easy hours; no Sunday duty; age about 30; permanency to smart man; single preferred; state full particulars, etc. Apply 76/4, Office of this Paper.

RELIABLE unqualified Assistant for West End Pharmacy; knowledge of French an advantage; reasonable hours and good salary offered to the right man. Write Box 34, c/o Mather & Crowther, Ltd., 10/13 New Bridge Street, E.C. 4.

SMART unqualified Assistant (male) for brisk City business. Full particulars to R. & J. Herman, Pharmacists, Colonial House, Water Street, Liverpool.

SOUTHALLS', Birmingham, have a vacancy for a Junior in their Dispensing Department. Apply, with full particulars and salary required, to 17 Bull Street, Birmingham.

THOMPSON & CAPPER, LTD., have vacancies for Assistants in Retail Branches in Lancashire and Yorkshire; qualified and unqualified; knowledge of Photographic business preferred. Apply, sending photograph if possible, and stating experience, and salary required, to Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED Assistant required; young man, smart and intelligent; knowledge of Photography preferred; salary and commission. Apply "Progrese" (75/40), Office of this Paper.

WANTED, an Assistant in busy Retail in Midlands; an expert Extractor preferred. Apply 72/12, Office of this Paper.

WANTED, lady Dispenser-Bookkeeper (Hall); some previous experience desirable, but not essential; comfortable post; no club or N.H.I. Dispensing; state age, experience, references, salary required (outdoors), and enclose copies of testimonials. Dr. Wylie, 217 Illey Road, Oxford.

WANTED (at once), unqualified Assistant, with good knowledge of Dispensing; outdoors. Apply Walter E. Plant, Pharmaceutical Chemist, 28 High Street, Doncaster.

WANTED, qualified Assistant; City; must be sober, industrious, young, and active; hours moderate. Apply 73/35, Office of this Paper.

WANTED, Assistant, qualified, with good experience; outdoors. Apply, with particulars of age, experience, when disengaged, and stating salary required, to A. J. Wing, Chemist, 69 Powis Street, Woolwich, S.E. 18.

WANTED, qualified Assistant, able to take charge if required. State full particulars as to age, height, experience, references, and salary required, etc., to Holman, Ham & Co., Ltd., Market Street, Exeter.

WANTED, a Junior Assistant for Dispensing and Light Retail; easy hours. Write, stating age, experience, and salary required (outdoors), to Joseph T. Sunman & Son, Chemists and Pharmacists, 43 Wellington Street, Luton.

WHOLE-TIME Assistant (male) wanted for Light Retail and Dispensing business, with Photography; must be good Counterman. Apply Marshall & Co., 5 Pimlico Road, S.W. 1.

WHOLESALE.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

MANCHESTER.—Unqualified, experienced Assistant for the Drug and Chemical Order Counter; state fully experience, age, salary expected, and when at liberty. Mottershead & Co., 7 Exchange Street, Manchester.

MANCHESTER.—Energetic young man, accustomed to Wholesale, required for soliciting and putting up ships' medicine orders; good prospects for really competent man. Apply 77/2, Office of this Paper.

AN Assistant, unqualified, with Wholesale and Manufacturing experience, for Wholesale Pharmaceutical business. State full particulars, age, and salary required in first place to "Chemist," 17 Market Street, Manchester.

INTELLIGENT youth wanted for Office of Manufacturing Chemists; age 18-20; preference given to one with knowledge of Home Drug trade. Write, stating age and salary required, to Stafford, Allen & Sons, Ltd., 7 Cowper Street, Finsbury, E.C. 2.

LIVE Representatives required for Edinburgh, Northumberland, Durham, Cumberland, and Yorkshire, to call on Chemists with a well-advertised line. Write "J. B. C.," Anderson's Advertising Agency, 14 King William Street, Strand.

MANAGER for Wholesale Manufacturing and Retail in Birmingham; qualified preferred; state fullest particulars as to experience, etc., salary required, first letter. Apply 72/2, Office of this Paper.

PACKER wanted, experienced in packing Pharmaceutical preparations for despatch by railway, etc.; good wages. Damaney & Co., 41 High Street, Harrow-on-the-Hill, N.W.

R. W. GREEFF & CO. invite applications for the position of Drug Buyer; must be thoroughly experienced. Write, stating experience fully, age, and salary required, to Thames House, Queen Street Place, London, E.C. 4, marked "Private." Applications will be treated in confidence.

REPRESENTATIVE wanted for South Wales on commission terms for a winter line, already selling very well; please state ground covered. Apply "V." (73/9), Office of this Paper.

REPRESENTATIVE required by old-established firm of Essence Water Makers and Confectioners, etc.; experienced man with connection preferred. Particulars of age, knowledge of business, and references, to 70/31, Office of this Paper.

REQUIRED, lady with experience in controlling girls, to take full charge filling and finishing room; state age, experience, and salary required; good prospects. Address 22/67, Office of this Paper.

RESIDENT Salaried Representatives required (at once); must have sound business connection amongst licensed Grocers, Chemists, and Wine Merchants; earning capacity unlimited; each of the following shires open for separate appointments: (1) Westmoreland and Cumberland; (2) Cheshire; (3) Lincoln; (4) Norfolk and Cambridge; (5) Oxford and Bucks; (6) Wilts and Berks; (7) Hants and I. of W.; (8) Dorset and Channel Islands; (9) Devon; (10) Anglesey, Flint, Denbigh, Carnarvon, and Merioneth; (11) Cardigan, Radnor, and Brecon; (12) Donegal, Londonderry, Tyrone, Leitrim, and Fermanagh; (13) Armagh, King's Co., Queen's Co., Wicklow, Carlow; (14) Westmeath, Kildare, Lifford; (15) North of Inverness and West of Caledonian Canal; (16) North of Inverness and West of Caledonian Canal; (17) Wigton, Kirkcudbright, Dumfries, Selkirk, and Roxburgh. No application considered unless accompanied with confidence. Write Box 150, c/o Wills, Ltd., 296-302 High Holborn, London, W.C. 1.

SALESMAN wanted (whole or part time) to sell fine line of well-advertised Toilet Goods in steady demand. Only men with established connections capable of handling a further first-class proposition on commission should write 11/72, Office of this Paper.

TRAVELLER required for Perfumery and Toilet Sundries; high-class French manufacture; London and suburbs; commission only. Write, stating terms, "C. A. B.," c/o Streets, 30 Cornhill, E.C. 3.

TRAVELLER.—Wanted, a Representative for local district; qualified. Apply by letter, stating age, experience, and salary required, to Wilkinson & Simpson, Ltd., Wholesale Druggists, Newcastle-on-Tyne.

TRAVELLER for London and Home Counties, with good connection Chemists and Hairdressers, to carry on very liberal commission basis Surgical Rubber Goods, Dressing Combs, etc.; experience and references necessary. 76/30, Office of this Paper.

TWO Travellers required for London and provinces for high-class Toilet articles; salary, expenses, and commission; experienced men only need apply. Apply 71/3, Office of this Paper.

WANTED, Manufacturing Laboratory Assistant; post offers valuable experience for a young Pharmacist; a good unqualified man would be considered. Apply, stating age, salary required, and general experience, to "Laboratory," Brady & Martin, Ltd., Northumberland Road, Newcastle-on-Tyne.

WANTED, by a house dealing in Pharmaceutical and Organo-Therapeutic Preparations, a first-class man to develop business amongst Chemists and the medical profession; Pharmaceutical or Medical training an advantage. Write, stating full particulars of experience, age, and salary expected, to "L." (25/14), Office of this Paper.

WANTED, strong youth for general work in Laboratory. Apply Ilex Supply Co., Ltd., Chemists' and Hairdressers' Sundriesmen, 252b Gray's Inn Road, W.C. 1.

WHOLESALE firm is desirous of getting in touch with the best markets for Drugs, Chemicals, Pharmaceutical Products, or Sundries, and invite quotations for spot cash; only first-class houses or manufacturers who specialise in these lines will be considered. 77/6, Office of this Paper.

YOUNG qualified Pharmacist required by firm of Wholesale Chemists for supervision in labelling and finishing of Pharmaceutical products. Write, giving full particulars and salary required, to 27/53, Office of this Paper.

YOUNG Lady Clerk, to assist in Buying; knowledge of shorthand, Typing, and Filing. Amami Perfumery, 469 Holloway Road, N. 7.

SITUATIONS OPEN.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

(Colonial, Indian and Foreign.)

AFRICA.—Pharmacist, with British or South African qualification, wanted as Traveller in South and East Africa for important Manufacturing Chemists; age about 30; unmarried; previous travelling experience not absolutely essential; first-class passage out; triennial leave. Apply 24/53, Office of this Paper.

CALCUTTA.—Required, for Calcutta, first-class Chemical and Druggist Salesman; about 30 to 35 years of age; previous experience essential; knowledge of Indian Import and Export business preferred. Write, giving full particulars of experience and salary required, Z.S. 687, care Deacon's, Leadenhall Street, E.C. 3.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every additional 10 words or less, prepaid.

[HOME.]

RETAIL.

ADVERTISER who has successfully managed at present berth for 13 years needs a berth as Manager or position of trust where energy and competence will be well paid for; thoroughly experienced in all branches; unqualified; married; abstainer; permanency needed. Full particulars of salary, hours, etc., to 69/14, Office of this Paper.

ADVERTISER is prepared to take and price few Chemists' Stocks; immediate dates; low terms combined with accuracy. 14 Barnard Road, S.W. 11.

ADVERTISER, qualified, 20 years' all-round experience, also wife for Books and Counter, seeks Manager's post of responsibility, where ability will be appreciated; Dental and Optics; keen Buyer; view to succession or otherwise; live on premises. Write (confidence) to "Spec." (77/5), Office of this Paper.

ADVERTISER; excellent credentials; first-class experience; disengaged shortly; Manager, managing assistance, or Locum; £5 5s. a week. 75/38, Office of this Paper.

AS Assistant or Manager, temporary or permanent, with or without view succession; qualified; 31; tall; good long-date references. Apply 71/40, Office of this Paper.

AS Locum, permanency desired; qualified; 18 years' experience London, Continent; fluent French; Photographics; discharged R.A.M.C.; good references. Burrell, 78 Rockingham Street, S.E. 1.

AS Branch Manager, Locum, or Dispenser; qualified; 20 years' experience; married; at liberty now. "Reliable" (75/15), Office of this Paper.

AS Manager or Senior; qualified; capable, energetic, reliable; City, Central or West End. Apply 73/14, Office of this Paper.

AS Locum or permanency; 42; first-class West End and provincial experience; reasonable terms. Apply J. P., 122 Baddow Road, Chelmsford, Essex.

AS Manager.—Qualified Chemist desires responsible permanent position; age 38; height 5 ft. 7 in.; married; available September 25; has successfully managed business (for widow) nearly three years, recently sold. Send particulars, salary and hours, etc., "Apex," c/o White Wicket, Chedale Hulme, near Stockport.

AS Manager, with view to succession; capital all-round experience, London and Provincial; would consider neglected business into which introduction of modern ideas would be appreciated. Write "Qualified" (77/280), Office of this Paper.

ASSISTANT, 25, unqualified, desires situation near Birmingham; kindly state salary. Apply 72/130, Office of this Paper.

ASSISTANT, unqualified, 25, 7 years' experience, desires situation; kindly state salary. Apply 72/13, Office of this Paper.

ASSISTANT, 19, desires change; six years' experience Counter and Dispensing; good references; state salary; Yorkshire preferred. Apply 71/34, Office of this Paper.

ASSISTANT, unqualified, for good-class Dispensing, Retail, and Photographic; disengaged; good references. "Salio," 14 St. Aldate's (private entrance), Oxford.

ASSISTANT, unqualified, 32, married, just demobilised, smart appearance, desires situation, Pharmacy or Doctor; good references; previous situation eight years; state salary, hours, etc.; North of England preferred. Gray, 35 Crossland Crescent, Peebles, N.B.

ASSISTANT, unqualified, 34, married, desires situation where facilities for attending evening classes; all-round experience; six years present situation; W. England preferably. Apply 60/2, Office of this Paper.

ASSISTANT; 26; excellent Dispensing and Retail experience; knowledge of Photography. Chant, 57 Windermere Road, Ealing.

ASSISTANT, unqualified, 29, just demobilised, desires situation; pre-war experience Counter, Stock, Window-dressing, and Dispensing. Scarle, 2 Carlisle Avenue, Plymouth.

ASSISTANT; high-class experience; unqualified; state salary, hours. 74/15, Office of this Paper.

ASSISTANT; 47; unqualified; London and Provincial experience in Dispensing, Counter, and Photography; permanency; disengaged. 76/5, Office of this Paper.

BATH or district.—Woman Pharmacist requires post; 12 years' Retail experience; knowledge Photography; capable taking full charge, including buying. Elsworth, Woodlands, Doncaster.

BIRMINGHAM or District.—Assistant (male) desires position in first-class Druggist's business; capable of managing small business; state salary offered. Address 75/13, Office of this Paper.

BRANCH Manager or Locum; qualified; 56; married; active; good and varied experience; at or near coast or country preferred; state salary and other particulars; reasonable house. North, 136 Lindon Road, Bournville.

BELGIAN Chemist's Assistant seeks situation London; good experience; 36 years' age; first references. Write Ch. Goreux, c/o Kursaal Pharmacy, Ostend.

CHEMIST'S Daughter, aged 20, four years' Counter and Dispensing experience, desires engagement winter months; district between Leicester and Sheffield; indoors preferred. Apply 72/30, Office of this Paper.

COMPETENT Assistant; unqualified; 32; tall; experienced in Dispensing and Counter; excellent references; disengaged; near London preferred. Stapleton, Moor Street, Kidlington, Oxon.

CORK CITY.—Evenings or part-time wanted by M.P.S. studying medicine. Apply 60/17, Office of this Paper.

CROYDON or district.—Unqualified, 29, married, requires situation; Dispensing, Counter work, Photography. Apply 74/6, Office of this Paper.

D. DODSLEY, M.P.S., reliable Locum; disengaged October 3rd. Address 285 Brockley Road, S.E. 4.

DEMOBILISED soldier, three years' Drug trade experience, desires situation with opportunity for Dispensing; near Newcastle preferred. Dunne, Victoria Street, Consett.

DENTISTRY.—Qualified, 32, desires experience in Extraction and Mechanical; state terms. Apply 66/38, Office of this Paper.

DISENGAGED; Manager or otherwise; 20 years' all-round experience. Bedding, 10 Pensonby Terrace, Westminster, S.W. 1.

DISPENSER, lady, qualified, desires post with Doctor in East Lancs or West Yorks; 3 years' experience. Apply 72/8, Office of this Paper.

DISPENSER, 18 years' good all-round experience with Chemists and Doctors, also well up in Homœopathy and Retail work, desires permanency; 9 years present situation. Apply 72/38, Office of this Paper.

DISPENSER; Light Retail; quick, accurate; disengaged. Radix, 90a Pearcecroft Road, Leytonstone, E. 11.

DISPENSER (lady), Hall qualification, Stenographer, Book-keeper, desires post, preferably with Doctor; North London if possible. "Medical," 234 Lyndhurst Road, Wood Green, N.

DISPENSER; Counter and Photographic; seven years' experience; excellent references; London district preferred. Sturgeou, 67 Kimberley Gardens, Harringay, N. 4.

DISPENSER, woman, qualified, Doctors and Institution experience, desires post; would do Locum. Address F. W., 327 Seven Sisters' Road, Finsbury Park, N. 4.

DISPENSER, unqualified; age 25 years; 9 years' experience; highest references; disengaged shortly. 75/9, Office of this Paper.

DISPENSING.—Lady (Hall), good experience, desires post; Institution or Doctors preferred. "A," 1 The Avenue, Beckenham.

DISPENSING desired with Chemist in S.W. London; Minor qualification; state terms. Miss Fox, 96 Lewin Road, S.W. 16.

DISPENSER-BOOKKEEPER, Lady, requires post; experienced; Doctor, Institution. H., 31 Boulevard, Hull.

EVENINGS; qualified; Dispensing or Counter; disengaged after 5 p.m. Pharmacist, 22 Chatsworth Road, West Norwood.

EVENINGS; unqualified; good experience Counter, Dispensing; references. Busby, 10 Elmsdale Road, Walthamstow.

FOURTEEN years' varied experience.—Lady (Hall) desires position (end October or earlier); preferably S.W. London; non-resident. M., 45 Nimrod Road, Streatham.

FRENCH Chemist's Assistant desires situation in London; French pharmacy preferred; as soon as possible; excellent references. Storck, 5 Randolph Road, Maida Vale, W. 9.

FRENCH Dispensing Chemist, speaking English fluently, well educated, desires situation in England; Apothecaries' Hall certificate. Write to M. Pierre Clavière, 59 Rue Carnot, Portiers, Vienne, France.

HOSPITAL Pharmacist, open to accept position in Hospital or with M.O.; accustomed to Dispensing, Sputum, and other Analyses; also can assist in routine treatment of Syphilis, etc.; London only. Apply 65/28, Office of this Paper.

LADY (22), studied for Hall, requires post, Assistant Dispenser; Doctor, Chemist, or Hospital; London, W. preferred. Apply 71/11, Office of this Paper.

LADY Dispenser requires part-time engagement; morning or evening; Chemist or Institution; London area. Apply Miss Vicary, Claremont, Farnborough, Kent.

LADY Dispenser (Hall), experience with Chemist and Doctor, requires post with Doctor; in or near London. Apply 67/26, Office of this Paper.

LADY Dispenser (Apothecaries' Hall) desires post with Doctor; Brighton or district preferred. Apply 68/21, Office of this Paper.

LADY Dispenser (Hall), Hospital experience, desires post; Doctor or high-class Chemist; town or country. Apply 70/15, Office of this Paper.

LADY Dispenser, Hall, requires post Hospital or Institution; London; experience home and abroad. Miss Willan, Sydling, Shortheath, Farnham.

LADY, Minor qualification, 22, 5 ft. 7 in., five years' shop experience, seeks situation in good-class business; outdoors; Dispensing, Counter, Photography. Miss Rose, 5 Adeline Road, Boscombe, Hants.

LADY, 21, desires berth; reliable Dispenser; West End experience. Apply Elliott, 163 Camden Road, N.W. 1.

LADY Dispenser (Hall) desires post Doctor or Institution, in London; Hospital experience home and abroad. Apply "R.," 5/29, Emperor's Gate, S.W. 7.

LADY Dispenser (Hall) desires post (London); some experience with Chemist and Hospital. Apply Taylor, 59 Somerton Road, Cricklewood, N.W. 2.

LADY, age 19, requires situation as Assistant Dispenser or Bookkeeper; 2 years' experience. Apply Cougham House, Farington, near Preston, Lancs.

LADY Counter Hand seeks position in high-class Retail Pharmacy; good references; 2½ years' experience; no Dispensing. Miss Slater, 13 Westcotes Drive, Leicester.

LADY, unqualified, desires post; Dispensing preferred; five years' experience. Apply 67/29, Office of this Paper.

LIVERPOOL.—Qualified Assistant or Manager; 34; good references; reliable; all-round experience, including Photographics; or with view to succession. "Liver" (72/350), Office of this Paper.

LOCUM; experienced; can take charge; disengaged. Oliver, c/o Davies, Chemist, Bromyard, Worcester.

LOCUM; Major qualification; thoroughly experienced; abstainer; disengaged end of month. Dear, c/o Tween, Pharmacist, High Street, Bushey, Herts.

LOCUM; 30; qualified; reliable; Square man. Howarth, 62 Dugdale Road, Burnley.

LOCUM disengaged; tall, middle-aged, married, abstainer; high-class preferred; used to control; where ability appreciated. Watson, 6 Upper Stone Street, Maidstone.

LOCUM or otherwise; disengaged; all-round experience; in or near London. 82 Marlborough Road, Romford, Essex.

LOCUM or permanency; long West End and foreign experience; speaks French. "F. T. P.," 9 Barnard Road, London, S.W. 11.

LOCUM; free October 14th to 30th. A. H. Cooper, c/o Mr. Jackson, Crediton.

LOCUM; disengaged in a week; qualified; over 30 years' experience all grades; excellent references. M. Smith, c/o Watson, Chemist, Market Place, Chadwell Heath, E.

LOCUM; qualified; experienced; disengaged; satisfactory references. "R.," 38 West Brampton, Newcastle, Staffs.

LOCUM or Manager permanency; references; experience thorough, Minor and Hall; from October 6th; gentlemanly employer desired. "Chemist," 47 Ogilby Street, Woolwich.

LOCUM-DISPENSER (Hall), experienced, disengaged October. Miss Saul, 129 High Street, Brentwood, Essex.

LONDON.—Lady Dispenser (Hall) desires post October; good experience with Doctors; Doctor, Hospital, or Institution preferred. Apply 72/9, Office of this Paper.

LONDON.—Lady Assistant (Hall), 2½ years' various experience, desires permanent post; October; Doctor, Hospital, or high-class Chemist; testimonials on application. Apply Miss Warren, St. Michael's House, Mildred Avenue, Watford.

M.P.S., ACTIVE, 32, open for part-time engagement; one or two afternoons and evenings. Apply 72/4, Office of this Paper.

M.P.S., 40, married, no family, requires Managership, with view to succession, in healthy country district; good living accommodation on premises essential; disengaged end of October. Please state full particulars, salary offered, etc., to "C. S." (76/18), Office of this Paper.

MALE Assistant (23) requires post; Leeds or district preferred; would take Wholesale or Retail; willing worker; do anything. Replies to 70/17, Office of this Paper.

MANAGER (35) desires position, with view to succession; qualified; married; high-class London and provincial experience; Photography. Apply 72/20, Office of this Paper.

MANAGER, Senior, Locum, Major; experienced Counter, Dispenser, Prescriber; outdoors; references; disengaged. Anthony, 58 Sumatra Road, West Hampstead, N.W. 6.

MANAGER, Locum, elderly, qualified, for small business; London or country; accurate Dispenser. "Pharmacist," 18 Penshurst Road, South Hackney.

MANAGER; qualified; seaside, but not essential; highest credentials. "Tetanus" (74/4), Office of this Paper.

MANAGER or Locum; qualified; disengaged; 25 years' exceptional London and Provincial experience; permanency preferred; references. 74/40, Office of this Paper.

MANAGER, Locum, or Dispenser; qualified; good experience town and country; disengaged; height 5 ft. 10 in.; good appearance and address. Longman, 229 Westminster Bridge Road, S.E. 1.

MANAGER or Locum; qualified; married; disengaged; 20 years' experience. Details to "D. O. C.," 26 Fox Hill, S.E. 19.

MANAGER or Assistant; 31; married; unqualified; reliable; abstainer; excellent references. Please reply, with usual particulars, to 76/40, Office of this Paper.

MANAGER, qualified, married, 36, desires Management of good-class Dispensing and Photographic business; West London preferred, but not essential; good address; excellent West End experience; perfect references. Apply 77/28, Office of this Paper.

PART-TIME evenings; qualified; London (in- or out-doors). Lennon, 5 Barrington Mansions, Gresham Road, Brixton, S.W. 9.

PART-TIME; qualified; Counter, Dispensing, Manufacturing; daily, mornings, 9 till 1. Apply 73/19, Office of this Paper.

PART-TIME; qualified; Clerical; Retail or Manufacturing; first-class experience; free every afternoon. Apply 73/16, Office of this Paper.

PHARMACIST (lady); demobilised; experienced Hospital and Retail; excellent testimonials; capable of taking charge. Apply Miss Roberts, "Sisters' Quarters," Royal Naval Hospital, Chatham.

PHARMACIST, just demobilised; 39; 12 years' experience as Manager before joining up; late Staff-Sergeant R.A.M.C.; at liberty; Manager or Locum. "H. A. J. P.," 64 Church Road, Upper Norwood, S.E., 19.

PHARMACIST; first-class general experience, including Continental; state salary. "Donovan," 50 Goldstone Villas, Hove.

PHARMACIST, 31, abstainer, requires post, Manager, with opportunity for interest or succession; capital £300. "Pharmacist," Boldroyd, 274 Bradford Road North, Huddersfield.

QUALIFIED (25), as Branch Manager or Assistant; experienced; disengaged October 11th. Usual particulars to 72/31, Office of this Paper.

QUALIFIED, 32, married, desires permanency; Branch Manager or Assistant; best-class Retail experience; highest credentials; preferably view to succession. Mascotte, Amherst Road, Sevenoaks.

QUALIFIED; Manager or Assistant; experienced; Photographic; highest testimonials; disengaged early October. "R. L. A.," 22 Ellison Road, Barnes, S.W.

QUALIFIED Dispenser; good references. (Miss) Saul, 33 Victoria Road, Darlington.

QUALIFIED; Locum or permanency preferred; as Manager; with rooms attached; married, no children; Extractor; correspondence invited with view to succession. Munro, 72 Wroughton Road, Clapham.

QUALIFIED, 27, seeks a progressive berth in good Pharmacy, early October; first-class Dispensing, Retail, and Photo experience; six years' present situation; Midlands or W. of England preferred. Fawcett, c/o Chave & Jackson, Ltd., Hereford.

QUALIFIED; age 32; married; knowledge of Photography. 16 Freeston Place, Attercliffe, Sheffield.

QUALIFIED, 30, single, recently demobilised, desires employment in good-class Retail business. State terms to Black, Hillside, Torphins, Aberdeenshire.

QUALIFIED; married; 33; Branch Manager; permanency; abstainer; good knowledge of Optics and Photography; excellent all-round experience and undeniable references. Apply "Reliable" (74/24), Office of this Paper.

QUALIFIED Lady, Minor, West End experience, Dispensing and Counter, desires post in London (preferably West End). Apply 76/12, Office of this Paper.

SOUTHERN or District.—Dispenser, lady, qualified 12 years, seeks post; permanency. Apply 74/18, Office of this Paper.

UNQUALIFIED; 40; fair experience; good-class Dispensing, Retail; some years' absence; 2 latter study; 4 months present situation; appearance secondary; slight grey; strict abstainer; 3 extra hours; indoors, outdoors, or full-time outdoors; good hours; moderate. H. H. Moore, Kennedy's Medical Hall, Graigue, Co. Kilkenny.

UNQUALIFIED Assistant, aged 30, smart appearance and gentlemanly habits, seeks berth in London or country; good all-round experience with a little Extracting. "Sitruce" (71/8), Office of this Paper.

UNQUALIFIED (lady); over two years with Chemist; Dispensing and Counter; suburban S.W. district preferred. "O. R.," 90 Ashen Grove, Wimbledon Park, S.W.

WELL-EDUCATED young lady desires post as Dispenser (Hall qualifications); some experience; Brighton or district preferred. "M.," 105 Beaconsfield Villas, Preston, Brighton.

WILL Chemist, Doctor, or Institution offer post of Dispenser to ex-Sergt. R.A.M.C.? High-class experience, but unable to follow Retail through deafness following shock and exposure; age 28; good appearance and address; splendid references. 74/23, Office of this Paper.

WINTER season's Management; West Country preferred; 50. "Chemist," 67 Northumberland Road, Coventry.

YOUNG lady, M.P.S.I., wishes appointment as Dispenser to Doctor; short hours; South of England preferred; excellent references. Please apply with full particulars to Victor E. Hanna, Irish Pharmaceutical Bureau, 70 Lower Mount Street, Dublin.

WHOLESALE.

1s. for 12 words or less : 6d. for every 10 words or less Beyond, prepaid.

ADVERTISER (40) desires situation early in October; Wholesale, Wets, or Dispatch passenger, Counter; London or district; excellent references; ex-Army. "Seal" (75/27), Office of this Paper.

GENTLEMAN, with 11 years' experience of the road, desires position as Traveller; Drugs or Sundries; excellent references. Apply 71/26, Office of this Paper.

N.C.O., 2 years in charge H.Q. Laboratory, experienced in Bacteriological and Clinical Diagnosis, Agglutinations, Vaccines, etc., also 15 years' experience in Pharmacy, seeks post in a London Laboratory as Assistant; excellent references. Write "R.A.M.C." (75/15), Office of this Paper.

PHARMACEUTICAL Chemist desires responsible and remunerative position; Wholesale or Retail (former preferred); first-class management experience, including multiple shops and departmental stores. Apply "Ph.C." (72/10), Office of this Paper.

QUALIFIED, 32, good appearance and address, first-class Wholesale and Retail experience, over five years as Representative with leading Pharmaceutical speciality house, desires position as Sales Manager or London Representative with firm supplying first-class products, either Drugs, Chemicals, or Perfumery, Toilet, etc., or would undertake the introduction of new lines. Apply 72/5, Office of this Paper.

REPRESENTATIVE; strong and influential connection with Chemists (15 years), Midlands, West of England, and South Wales; salary or commission basis. Apply 77/1, Office of this Paper.

REQUIRED, position Representative, London district; Drugs, Sundries; 12 years' experience Retail and Medical men; age 29; married. Apply 74/60, Office of this Paper.

WANTED, by man at present disengaged, position as Stock-keeper, Storekeeper, or Warehouseman in Wholesale or Retail business. Apply 70/5, Office of this Paper.

YOUNG man, 22, recently demobilised, seeks position in manufacturing firm (Perfumery and Toilet Preparations); apprenticeship served with high-class firm. Write "X." (71/10), Office of this Paper.

YOUNG man desires position as Traveller; five years present situation (Retail); Lancashire or other North Counties preferred. Apply 60/22, Office of this Paper.

MISCELLANEOUS.

7s. for 60 words; every additional 10 words 8d.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—280 Allenbury "C" 6% Prefs. 19s. 6d. c.d., 30 "B" Prefs. 19s. 9d. c.d.; £100 W. J. Bush 4% Debentures, £68 10s. c.d.; 500 Commercial Salt, 2s.; 76 Camwall Ord., 2s. 10½d.; 100 International Sponge Ord. 9s. 4½d., 50 Prefs. 15s. 3d.; 200 Parkes Drug 6% Prefs., 16s. 3d.; 500 Plasmon Ord., 9s. 10½d.; 50 Yeatman Ord., 14s. 7½d.; 75 Wright Layman Prefs., 19s. 9d. c.d.

Wanted (subject).—500 Lewis & Burrows Ord. 12s. 6d., 100 Prefs. 15s.; 200 Wright Layman Prefs.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

ABOUT 200 gross stoppered Perfume Bottles; large variety in stock; advantageous prices; samples on application; also 50 gallons best Nut Oil for Disposal, 12s. per gallon. G. W. Ruff, 97 Charlotte Street, London, W.

BANDAGES.—25 Gross 1 in., W.O.W., 10 gross 1½ in., 25 gross 2 in., 25 gross 2½ in., 12 gross 3 in., 3 gross 4 in.; all 6 yds. long; what offers for whole or part? Samples on application. Hanna, Pharmacist, Lower Mount Street, Dublin.

COPPER Boiling Pan, very strong, gas or fire, with tap, 50 gall., £12; ditto, no tap, 15 gall., £3; Jacketted Copper Stearn Pan, 30 gall., £20; Soda-water Machine, Barnett's, complete syphon filling, £35; Capsuling Machine, £3; Vial Corking Machine, 65s.; Asbestos Filter for all liquids, £6 10s.; good second-hand machinery as above bought and sold. Jacksons', Pownall Square, Liverpool.

MERCHANTS' Bargains.—Cwt. bruised Jamaica Ginger; 14 lb. coarse-ground Calamus Root; 14 lb. coarse-ground Angostura Bark; 28 lb. White Honey; 28 lb. Pale Honey; 7 lb. Dandelion Root; 1 lb. Gingerine; 1 gross 30-oz. Syphons; Soda Fountain; Wanted, odd lot Bottles for Perfumes, Gledhill Till, Gardner Sifter and Mixer, Weighing Machine, Synthetic Perfumes. Merchant, Norwood Avenue, Southport.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.O.

SHOWCASES AND SHOP-FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

TINS.—About 200 gross Plain White, small ointment size; clean; these at 2s. 6d. per gross; also about 300 gross assorted Ointment Tins; soiled; job sample, 5 gross, carr. paid of these for 10s.; Cardboard Tubes, 3 ft. long, ¾ in. in diameter, 1,200 gross; samples sent free. Hemmings, 76 Peckham Rye, S.E.

VERTICAL Power Mixer, 180-gall. capacity; New Autoclave or Food Cooker, 150 galls.; Copper Steam Jacketed Pan, 80 galls.; 2 in. Power Driven Rotary Pump. Apply 73/27, Office of this Paper.

130 POWDER Boxes, slides (12); 31 ditto (24); 83 Amber, wide-mouth, 2-oz. Bottles, with pine-topped corks; 2 Oheavin's Filters, ½ gall.; what offers? Also "Royal Barlock" Typewriter, £15. Gilleard, 231 Seven Sisters Road, N. 4.

PAPER

Demy from 7/6 ream, strong brown Sulphite Tissue for bottle wrapping 8/- ream, Brown Wrapping from 30/- ream, Swedish Kraft 65/- cwt. Thin Hemp String for parcels, 8-oz. balls, 10/6 per dozen.

D. W. BULL, 4 CHURCHILL ROAD, HOMERTON, E. 9.

EXCHANGE COLUMN.

One penny per word: Minimum 1s.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

WHAT OFFERS, 66 × ½ lb. Bottles Sod. Sulphite Anhyd. Shukers, Ltd., Launceston.

2 OZ. Quin. Sulph.; 2 oz. Quin. Hydro.; 2 oz. Saccharine 330; what offers part or lot? Maurice, 5 Speed Lane, Broseley, Salop.

NYAL Preps.: 1 × 2s. 6d. Hypophos.; 1 × 2s. 6d. Rheumatic, 2 Eczema; 1 × Blood and Nerve Pills; 3 × 1s. 3d. Dys. Tabs.; 2 Laxacols; 3 × Kidney, 1 Cascara; 1 × Larkspur; 1 Blackberry; 1 × Easem; all half price. Neal, 56 Knight's Hill, West Norwood.

MISCELLANEOUS.

CORVUSINE, 3 × No. 4 Drums; 36s. each. White, Chemist, Burnham Market.

MENTHOL XTALS, 4½ lb. What offers? Parker, 107 Somerville Road, Small Heath, Birmingham.

BERKEFELD Filter; complete in canvas case. What offers? W. T. Stephenson, Chemist, Sutton, Surrey.

FOR SALE, 2 Suppository Moulds, 60-grain, hold 3 dozen; new; what offers? Apply 71/37, Office of this Paper.

MANICURE; 2 dozen superior quality; needlepoint Cuticle Scissors; accept 40s. per dozen; money returned if not approved. Tax, 31 Charing Cross, Whitehall, S.W. 1.

WANTED.

WANTED, Ol. Corland. Sharman, Chemist, Northwood. **WANTED**, about 56 lb. Block Juice. Lowest price to 70/13, Office of this Paper.

KODAKS, Junior Kodaks, Folding Brownies, 2.C. Film. Bromhall, Chemist, Thetford.

OINTMENT Tins required in any quantities. Samples and quotations to "L." (27/14), Office of this Paper.

TUBE-FILLING Machine; also Gardiner's Sifter and Mixer. Jackson, Pownall Square, Liverpool.

WANTED, "Pharm. Journal Formul." B.P. 1914; "Diseases and Remedies." Sutherland, Chemist, Wick.

14-FT. Serving Counter; glass-cased front; lowest cash price. Armstrong, 165 Blackstock Road, Finsbury Park.

WANTED, six 3-lb. Pink Ointment Jars, dome tops, and six 1-lb. ditto, fig. 1463 Maw's List. J. Tirrell, Hanley.

1,000 OUNCES Quinine Sulph. required immediately; quote lowest price, "Statim" (76/29), Office of this Paper.

SHOP-FITTINGS; whole or part; suitable for branch. State condition and price to "Radix" (73/11), Office of this Paper.

IN wholesale quantities, Wool, Lint, Bandages, and Gauze in bulk. Offers, with samples, to "L." (28/19), Office of this Paper.

OHECK TILL Wanted; small size; O'Brien patent; state price and condition. 64/25, Office of this Paper.

10 GROSS 2-oz., three-side, panelled, taper-neck Bottles, or 3-oz. flats. Send sample and price (or 'phone Willesden 77), Scott's Chemical Co., 47 Huddleston Road, London, N.W. 2.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

*The
Wigglesworth
Way*

A Question for Chemists

Do you Pay **P** or Does Your
a Big Rent **?** Window Pay
For your Window **●** Your Big Rent ?

*Answered By
A Chemist*

MEMORANDUM

FROM

THOMAS MARNS, M.P.S.,

DISPENSING, FAMILY AND
PHOTOGRAPHIC CHEMIST,

22 HIGH STREET, EALING, W.

1st August, 1919

To. _____

(SENT TO LONDON REPRESENTATIVE)

Dear Sir,

Enclosed I hand you cheque to June 30th,
my year end.

I notice with pleasure that I have had another
record 12 months with your lines, in fact the profits
from your Window Displays alone have more than
covered rent and rates.

Look me up as soon as you can,

Kind regards, yours faithfully,

THOMAS MARNS.

The Wigglesworth Way

of selling Pharmaceutical Specialities creates a demand as potent
and insistent as the strongest Press-boomed-profitless-patent on
the Market.

*We'll tell you all about
it if you'll drop a P.C. to*

WIGGLESWORTH & CO.
WESTHOUGHTON, LANCs.

TO WHOLESALE & EXPORT TRADES.

ESTABLISHED 1844.

Extracts
Tinctures in Bond



Resins
Essential Oils

WILLIAM RANSOM & SON, LTD.,

MANUFACTURING PHARMACEUTICAL CHEMISTS.

Distillers of Essential Oils and Cultivators of Medicinal Plants.

HITCHIN, near LONDON.

Telephone 95 HITCHIN.

Cadbury's Cocoa and Chocolate

THE RECOGNISED STANDARD OF BRITISH MANUFACTURE.

MADE AT BOURNVILLE

WYLEYS' PHARMACEUTICALS

AND
PACKED SPECIALITIES.

Wyleys Ltd. Coventry.

GOODALL'S HEALTH SALTS.



These well-known Health Salts are manufactured from the finest materials, and will be found thoroughly effective. They are put up in attractive decorated tins (as illustrated), and we can offer prompt delivery.

We make several varieties under various well-known brands. All are offered at all times at the most modest prices the market allows.

PRICES : { Decorated tins, 4 oz. ... 7/- per doz.
1 gross lots ... net 78/- per gross.

GOODALL, BACKHOUSE & CO., LEEDS.